



XL Series Snow Thrower

Owner/Operator and Parts Manual

Model
815034



03840800C 1/12
Printed in USA

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INTRODUCTION

THE MANUAL

Before operation of unit, carefully and completely read this Manual and the unit's Owner/Operator Manual. The contents will provide you with an understanding of safety instructions and controls during normal operation and maintenance.

All reference to left, right, front, or rear are given from operator sitting in operation position and facing the direction of forward travel.

MODEL AND SERIAL NUMBERS

Transfer model & serial number label from product registration here.

When ordering replacement parts or making service inquiries, know the Model and Serial numbers of your unit.

Numbers are located on the product registration form in the unit literature package. They are printed on a serial number label, located on the frame of your unit.

- Record unit model and serial numbers here.

PRODUCT REGISTRATION

The Ariens/Gravely dealer must register the product at the time of purchase. Registering the product will help the company process warranty claims or contact you with the latest service information. All claims meeting requirements during the limited warranty period will be honored, whether or not the product registration card is returned. Keep a proof of purchase if you do not register your unit.

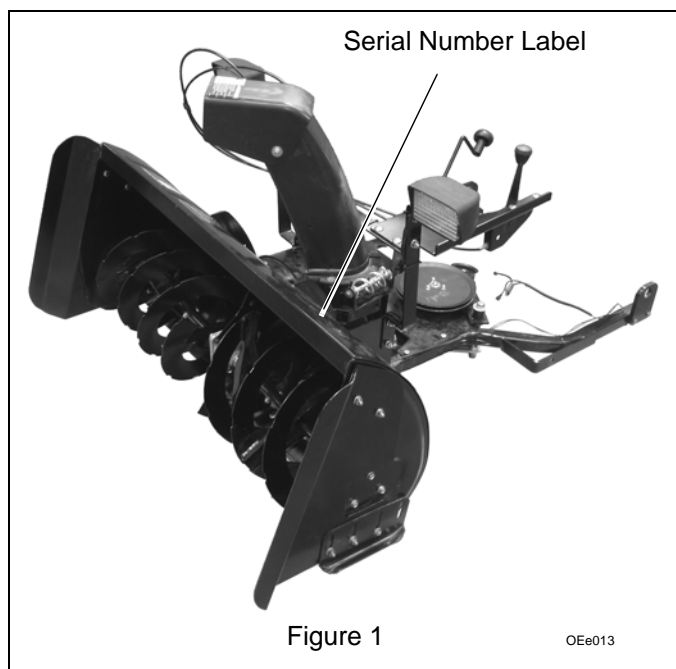
Customer Note: If the dealer does not register your product, please fill out, sign, and return the product registration card to Ariens or go to www.ariens.com or www.gravely.com.

UNAUTHORIZED REPLACEMENT PARTS

Use only Ariens/Gravely replacement parts. The replacement of any part on this vehicle with anything other than an Ariens/Gravely authorized replacement part may adversely affect the performance, durability, or safety of this unit and may void the warranty. Ariens/Gravely disclaims liability for any claims or damages, whether warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts.

DISCLAIMER

Ariens/Gravely reserves the right to discontinue, make changes to, and add improvements upon its products at any time without public notice or obligation. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your unit.



DELIVERY

Customer Note: If you have purchased this product without complete assembly and instruction by your retailer, it is your responsibility to:

1. Read and understand all assembly instructions in this manual. If you do not understand or have difficulty following the instructions, contact your nearest Ariens/Gravely Dealer for assistance. Make sure all assembly has been properly completed and safety interlock system works properly.

NOTE: To locate your nearest Ariens Dealer, go to www.ariens.com. To locate your nearest Gravely Dealer, go to www.gravely.com.



WARNING: Improper assembly or adjustments can cause serious injury.

2. Understand all Safety Precautions provided in the manuals.
3. Review control functions and operation of the unit. Do not operate unit unless all controls function as described in this manual.
4. Review recommended lubrication, maintenance and adjustments.
5. Fill out a Product Registration Card and return the card to the Ariens Company or go to www.ariens.com or www.gravely.com.

SAFETY

SAFETY ALERTS



Look for these symbols to point out important safety precautions. They mean:

Attention!



Personal Safety Is Involved!

Become Alert!

Obey The Message!

The safety alert symbols above and signal words below are used on decals and in this manual.

Read and understand all safety messages.



DANGER: IMMINENTLY HAZARDOUS SITUATION! If not avoided, WILL RESULT in death or serious injury.



WARNING: POTENTIALLY HAZARDOUS SITUATION! If not avoided, COULD RESULT in death or serious injury.



CAUTION: POTENTIALLY HAZARDOUS SITUATION! If not avoided, MAY RESULT in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTATIONS

NOTE: General reference information for proper operation and maintenance practices.

IMPORTANT: Specific procedures or information required to prevent damage to unit or attachment.

PRACTICES AND LAWS

Practice usual and customary safe working precautions, for the benefit of yourself and others. Understand and follow all safety messages. Be alert to unsafe conditions and the possibility of minor, moderate, or serious injury or death. Learn applicable rules and laws in your area. Always follow the practices set forth in this manual.

REQUIRED OPERATOR TRAINING

Original purchaser of this unit was instructed by the seller on safe and proper operation. If unit is to be used by someone other than original purchaser; loaned, rented or sold, ALWAYS provide this manual and any needed safety training before operation.

SAFETY DECALS AND LOCATIONS

ALWAYS replace missing or damaged safety decals. See figure 2 for safety decal locations.

1. HOT SURFACES!



DO NOT touch parts which are hot from operation. ALWAYS allow parts to cool.

2. DANGER!



ROTATING PARTS. Stop engine and remove ignition key before clearing.

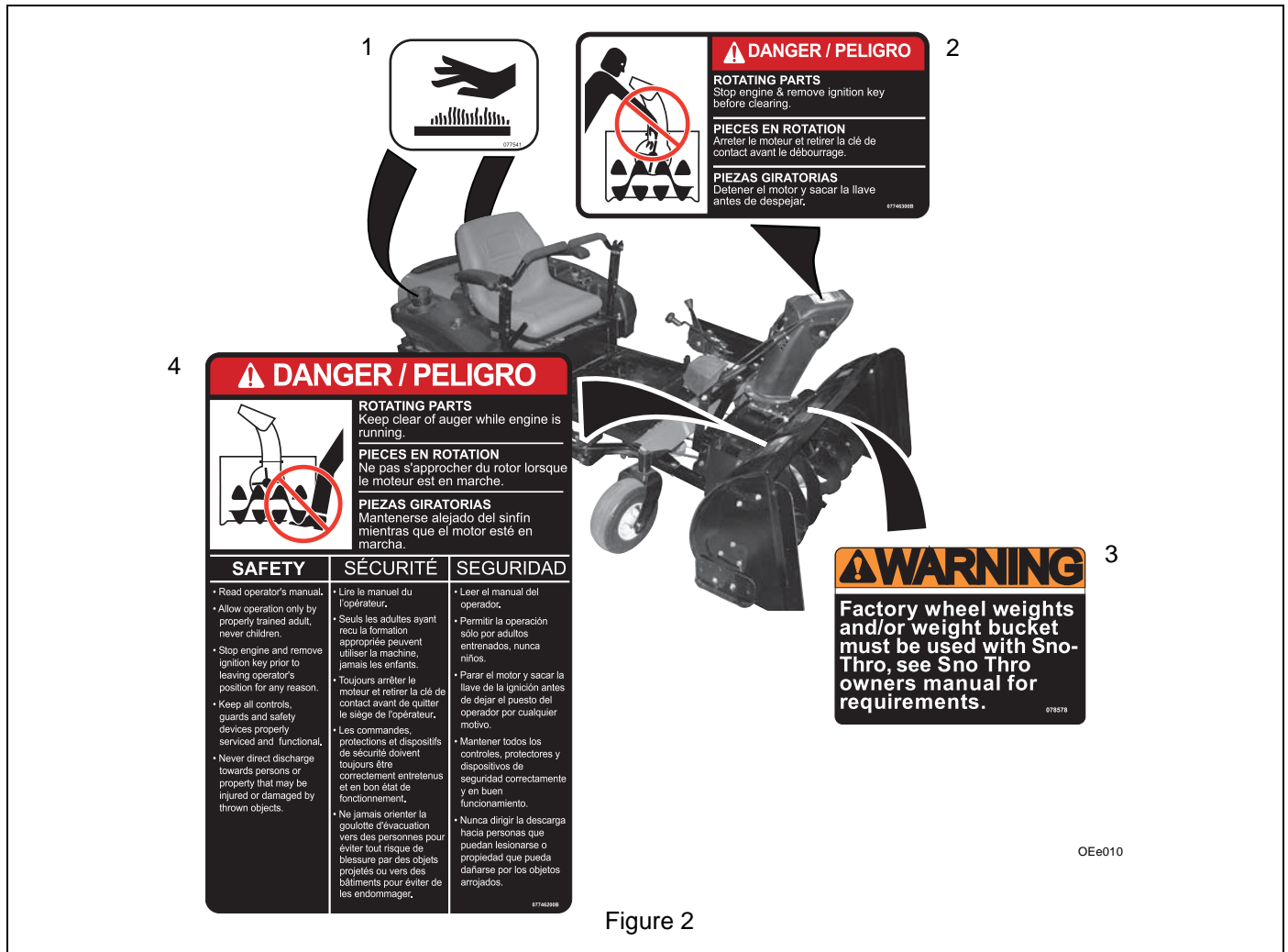


Figure 2

3. WARNING!

- Factory wheel weights and / or weight bucket must be used with Sno-Thro, see Sno-Thro owner's manual for requirements.

4. DANGER!



ROTATING PARTS. Keep clear of auger while engine is running.

- Read operator's manual.
- Allow operation only by a properly trained adult, never children.
- Stop engine and remove ignition key prior to leaving operator's position for any reason.
- Keep all controls, guards and safety devices properly serviced and functional.
- Never direct discharge towards persons or property that may be injured or damaged by thrown objects.

SAFETY RULES

Read, understand, and follow all safety practices in Owner/Operator Manual before beginning assembly or operating. Failure to follow instructions could result in personal injury and/or damage to unit.

ALWAYS remove key and/or wire from spark plug before assembly, maintenance or service. Unintentional engine start up can cause death or serious injury.

Complete a walk around inspection of unit and work area to understand:

- Work area
- Your unit
- All safety decals

ALWAYS check overhead and side clearances carefully before operation. ALWAYS be aware of traffic when operating along streets or curbs.

Keep children and people away. Keep children out of work area and under watchful care of a responsible adult.

NEVER allow children to operate or play on or near unit. Be alert and shut off unit if children enter area.

DO NOT allow adults to operate unit without proper training.

Keep area of operation clear of all toys, pets, and debris. Thrown objects can cause injury.

Check for weak spots on docks, ramps or floors. Avoid uneven work areas and rough terrain. Stay alert for hidden hazards.

Avoid uneven and rough terrain. DO NOT operate near drop-offs, ditches, or embankments. Unit can suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.

Falling snow, fog, etc. can reduce vision and cause an accident. Operate unit only when there is good visibility and light.

Only trained adults may operate unit.

Training includes actual operation.

NEVER operate unit after or during the use of medication, drugs or alcohol. Safe operation requires your complete and unimpaired attention at all times.

NEVER allow anyone to operate this unit when their alertness or coordination is impaired.

DO NOT operate unit without wearing adequate winter outer garments. Wear adequate safety gear, including safety glasses with side shields, and protective gloves. Wear proper footwear to improve footing on slippery surfaces.

DO NOT wear loose clothing or jewelry and tie back hair that may get caught in rotating parts.

Protect eyes, face and head from objects that may be thrown from unit. Wear appropriate hearing protection.

Avoid sharp edges. Sharp edges can cut. Moving parts can cut off fingers or a hand.

ALWAYS keep hands and feet away from all rotating parts during operation. Rotating parts can cut off body parts.

NEVER place your hands or any part of your body or clothing inside or near any moving part while unit is running.

ALWAYS keep hands away from all pinch points.

DO NOT touch unit parts which might be hot from operation. Allow parts to cool before attempting to maintain, adjust or service.

Never direct discharge towards persons or property that may be injured or damaged by thrown objects. Use extreme caution on gravel surfaces. Stay alert for hidden hazards or traffic. Adjust runners so scraper blade does not contact gravel. DO NOT throw snow any higher than necessary.

Deflected materials can cause injury and property damage.

Always stand clear of the discharge area when operating this unit.

ALWAYS disengage attachment, stop unit and engine, remove key and allow moving parts to stop before leaving operator's position.

ROTATING IMPELLER CAN CAUSE SERIOUS INJURY. NEVER ATTEMPT TO UNCLOG OR CLEAN UNIT WHILE ENGINE IS RUNNING.

Read, understand, and follow all instructions in the manual and on the machine before starting.

Understand:

- How to operate all controls.
- The functions of all controls.
- How to STOP in an emergency.

Before starting engine, disengage control(s).

ALWAYS allow unit and engine to adjust to outdoor temperatures before clearing snow.

DO NOT overload the machine capacity by attempting to clear snow at too fast a rate.

DO NOT operate at too fast a rate.

Slow down and turn corners slowly.

Do not operate in reverse unless absolutely necessary. ALWAYS back up slowly. Always look down and behind before and while backing.

Disengage attachment drive when travelling from one work area to another.

Abnormal vibrations are a warning of trouble. Striking a foreign object can damage unit. Immediately stop unit and engine. Remove key and wait for all moving parts to stop. Remove wire from spark plug. Inspect unit and make any necessary repairs before restart.

Before cleaning, removing clogs or making any inspections, repairs, etc.: disengage clutch(es), stop unit and engine, remove key, allow moving parts to stop. Allow hot parts to cool.

Run unit a few minutes after clearing snow to prevent freeze-up of attachment.

Disengage attachment when not in use. Disengage all clutches and place steering levers in neutral before starting engine. Adjust runners to clear gravel or crushed rock surfaces safely.

Never leave a running unit unattended. ALWAYS disengage PTO, lower the attachment, set parking brake, and shut off engine before leaving unit. ALWAYS remove key to prevent unauthorized use.

Never carry passengers.

Check clutch and brake operation frequently. Adjust and service as required. All motion of drive wheels and auger/impeller must stop quickly when control levers are released.

DO NOT operate on steep slopes. DO NOT clear snow across the face of slopes. Keep all movement on slopes slow and gradual. DO NOT make sudden changes in speed or direction. Use a slow speed to avoid stops or shifts on slopes. Avoid starting or stopping on a slope.

DO NOT park unit on a slope unless absolutely necessary. When parking on a slope always block the wheels.

ALWAYS shut off engine, remove key, and close fuel shut-off valve or drain fuel when transporting unit on a truck or trailer.

Use extra care when loading or unloading unit onto trailer or truck.

Secure unit chassis to transport vehicle. NEVER secure from rods or linkages that could be damaged.

DO NOT transport machine while engine is running.

Keep unit free of ice or other debris. Clean up oil or fuel spills.

This product is equipped with an internal combustion type engine. DO NOT use unit on or near any unimproved, forest-covered or brush covered land unless exhaust system is equipped with a spark arrester meeting applicable local, state or federal laws. A spark arrester, if it is used, must be maintained in effective working order by operator.

Fuel is highly flammable and its vapors are explosive. Handle with care. Use an approved fuel container.

NO smoking, NO sparks, NO flames. ALWAYS allow engine to cool before servicing.

NEVER fill fuel tank when engine is running or hot from operation.

NEVER fill or drain fuel tank indoors.

Replace fuel cap securely and clean up spilled fuel.

Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.

When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.

Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.

Do not use a nozzle lock-open device.

If fuel is spilled on clothing, change clothing immediately.

Before tipping unit up onto housing, remove fuel so no spills will occur. Ensure unit is secure and will not tip over during maintenance.

ALWAYS keep protective structures, guards, and panels in good repair, in place and securely fastened. NEVER modify or remove safety devices.

DO NOT change engine governor settings or over-speed engine.

Fumes from engine exhaust can cause injury or death.

DO NOT run engine in an enclosed area. Always provide good ventilation.

ALWAYS maintain unit in safe operating condition.

Damaged or worn out muffler can cause fire or explosion.

Keep all hardware properly tightened. Check shear bolts frequently. Check slip clutch on units so equipped.

Maintain or replace safety and instruction labels, as necessary.

NEVER store unit with fuel in fuel tank, inside a building where any ignition sources are present.

Shut off fuel and allow engine to cool completely before storing in closed area or covering unit.

For extended storage, clean unit thoroughly. See Engine Manual for proper storage.

Use only attachments or accessories approved by the manufacturer of the snow thrower such as wheel weights, counterweights, cabs, etc.

Check components frequently. If worn or damaged, replace with manufacturer's recommended parts.

Never operate the snow thrower near glass enclosures, automobiles, window wells, drop-offs, etc. without proper adjustment of the snow discharge angle.

Never operate the unit at high transport speeds on slippery surfaces. Use care when backing up.

Disengage power to the auger / impeller when the snow thrower is transported or not in use.

Never attempt to make any adjustments while the engine is running.

INSTALLATION

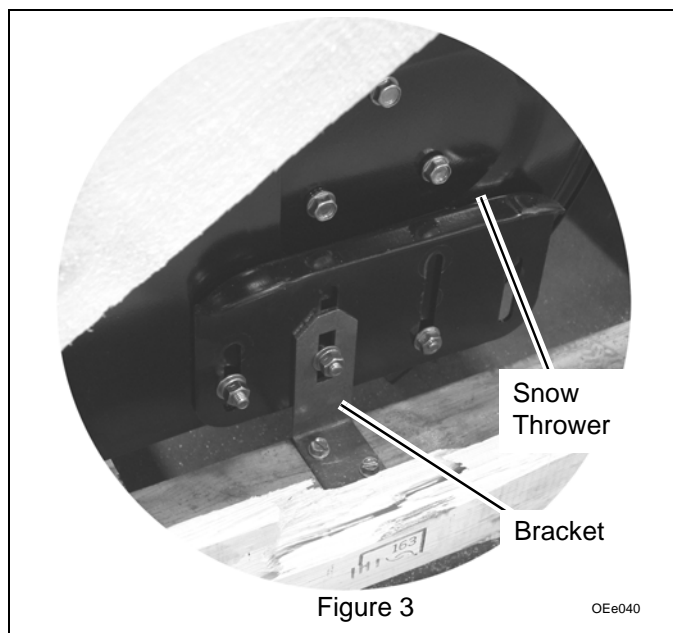


WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

UNPACKING UNIT

On each side of the snow thrower, remove the bracket that secures the snow thrower to the shipping crate (figure 3).

Carefully, remove all items from the shipping crate.



Package Contents:

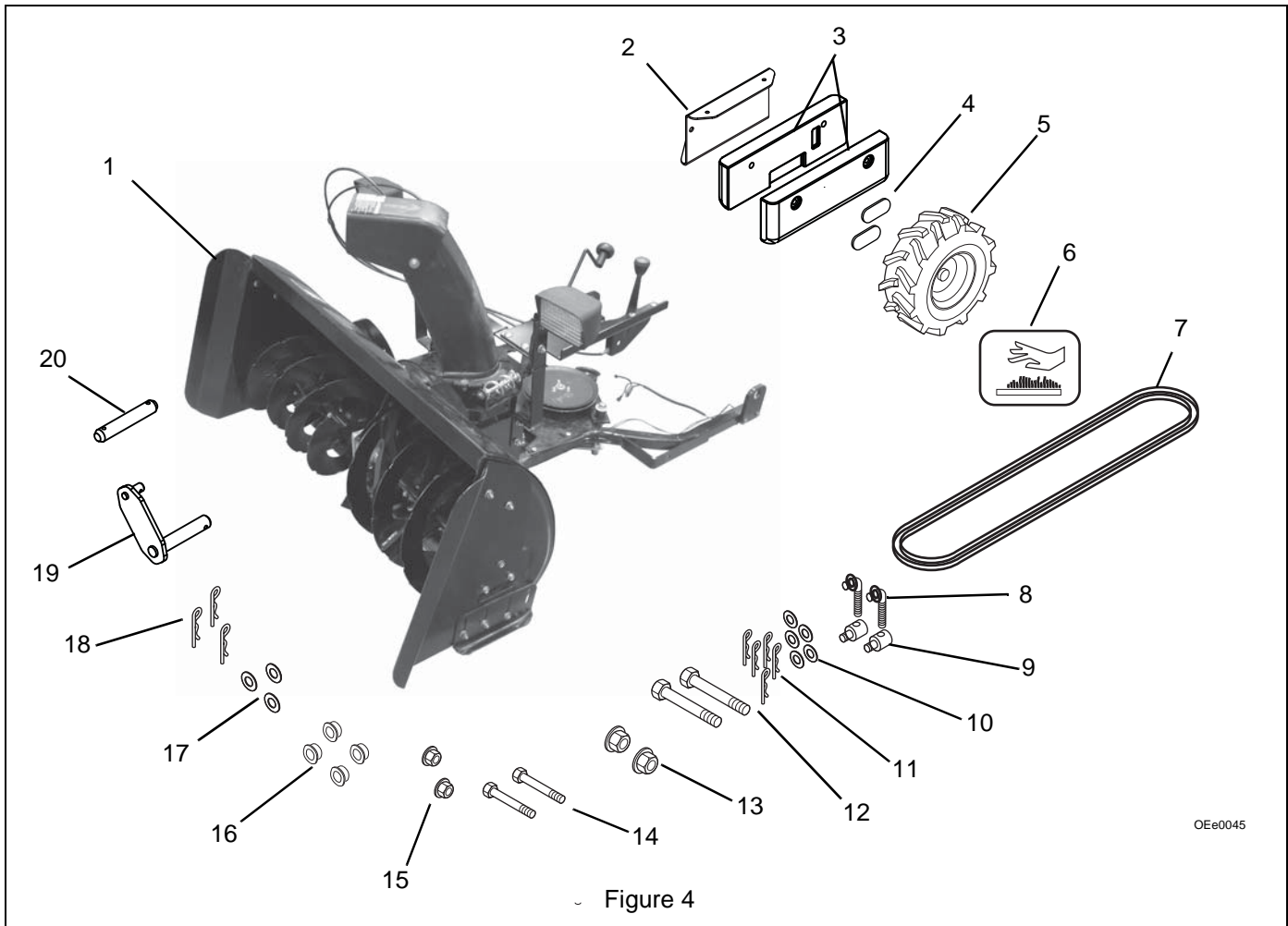
Check the contents of your kit for the parts listed below and shown in figure 4.

Snow Thrower Assembly

Item	Description	Qty	Ariens P/N
1	Snow Thrower	1	NA
2	Weight Bracket	1	03789051
3	Cast Iron Weight	1	00172000
4	Reflector	2	00272000
5	Tire and Wheel Assembly	2	00259000
6	Hot Surface Decal	2	07754100
7	PTO Belt – HA Raw Laminated Belt	1	07234400

Hardware Pack

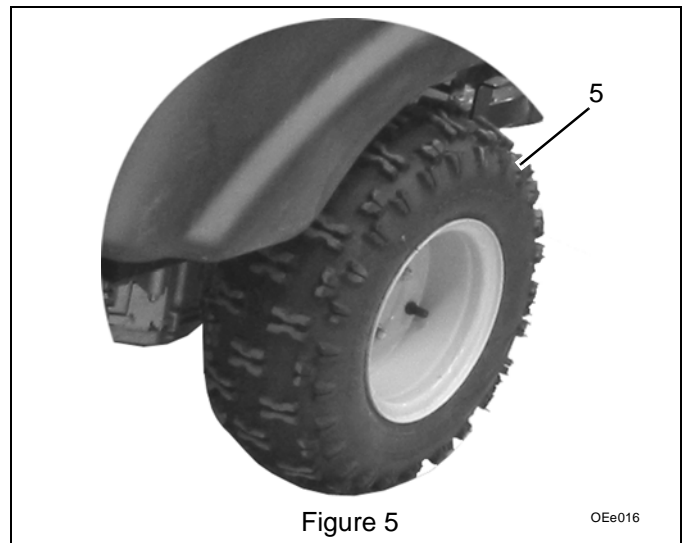
Item	Description	Qty	Ariens P/N
8	Lift Link	2	03788900
9	1/2" Trunnion	2	01590400
10	1-1/4" Flat Steel Washer	5	06430200
11	#16 Hair Pin	5	06714900
12	1/2"-13 x 5 Hex Bolt	2	05962200
13	1/2"-13 Top Locking Flange Nut	2	06543600
14	3/8"-16 x 1-1/4 Hex Bolt	2	05958000
15	3/8"-16 Top Locking Flange Nut	2	06542000
16	3/4 x 1 x 5/8 x 1-1/4 Flange Bushing	4	05503900
17	13/16 x 1-1/2 x 9/64 Flat Steel Washer	3	06439000
18	5/32 x 2-15/16 Hair Pin	3	06714000
19	Right Rear Lift Pivot Pin	1	03838600
20	Left Rear Lift Pivot Pin	1	03789100



REMOVE MOWER DECK AND INSTALL SNOW TIRES

NOTE: Do not discard the mower deck, turf tires, or hardware. Store these items until the next mowing season.

1. Remove mower deck and mower belt. See Owner's Manual.
2. Remove two rear turf tires from unit and install two snow tire and wheel assemblies (item 5) on unit (figure 5).



Reposition Headlights

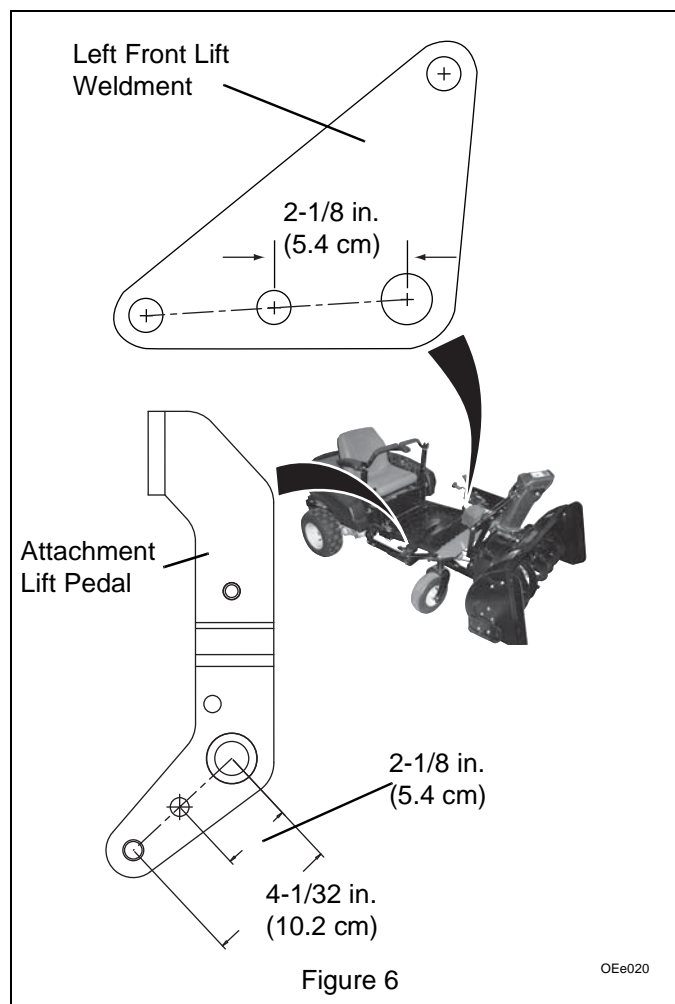
IMPORTANT: Make sure optional headlight kits do not interfere with snow thrower. Turn the headlights down or remove headlights from unit if they interfere with snow thrower installation.

Install Snow Thrower

Modify Front Lift Weldment and Attachment Lift Pedal (Figure 6)

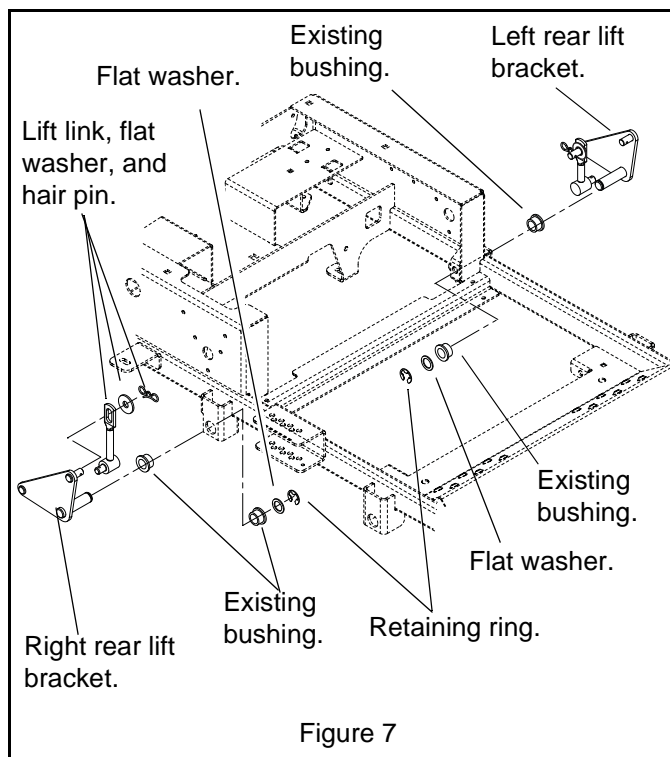
NOTE: Go to *Install Snow Thrower Frame on Unit* on page 9 if a 9/16 in. hole is already drilled through the left front lift weldment and attachment lift pedal.

1. Place the attachment lift pedal in the lowest position.
2. Drill a 9/16 in. hole through the left front lift weldment and attachment lift pedal as shown in figure 6.



Install Snow Thrower Frame on Unit (Figure 7 and Figure 8)

1. Set the attachment lift pedal to the lowest attachment height.
2. Slide snow thrower (item 1) under the unit.
3. Remove retaining rings, flat washers, left and right rear lift brackets and four bushings from the frame. Save the lift brackets, lift linkages, bushings and hardware to reinstall the mower deck. See figure 7.



4. Connect the snow thrower frame to the left side of the unit with two 3/4 x 1 x 5/8 x 1-1/4 flange bushings (item 16), left rear lift pivot pin (item 20), two 13/16 x 1-1/2 x 9/64 flat steel washers (item 17) and 5/32 x 2-15/16 hair pins (item 18). See figure 8.
5. Connect the snow thrower frame to the right side of the unit with two 3/4 x 1 x 5/8 x 1-1/4 flange bushings (item 16), right rear lift pivot pin (item 19), one 1-1/4" flat steel washer (item 10) and #16 hair pin (item 11), and one 13/16 x 1-1/2 x 9/64 flat steel washer (item 17) and 5/32 x 2-15/16 hair pin (item 18). See figure 8.
6. Install 1/2" trunnions (item 9) on lift links (item 8).
7. Install a lift link (item 8) on front lift weldment and on the lift pedal with 1-1/4" flat steel washer (item 10) and #16 hair pin (item 11). See figure 8.

NOTE: Turn 1/2" trunnion (item 9) clockwise or counter clockwise until 1/2" trunnion (item 9) aligns with snow thrower frame. Always make sure the link is threaded completely into the trunnion.

8. On each side of the unit connect 1/2" trunnion (item 9) to the snow thrower frame with 1-1/4" flat steel washer (item 10) and #16 hair pin (item 11). See figure 8.

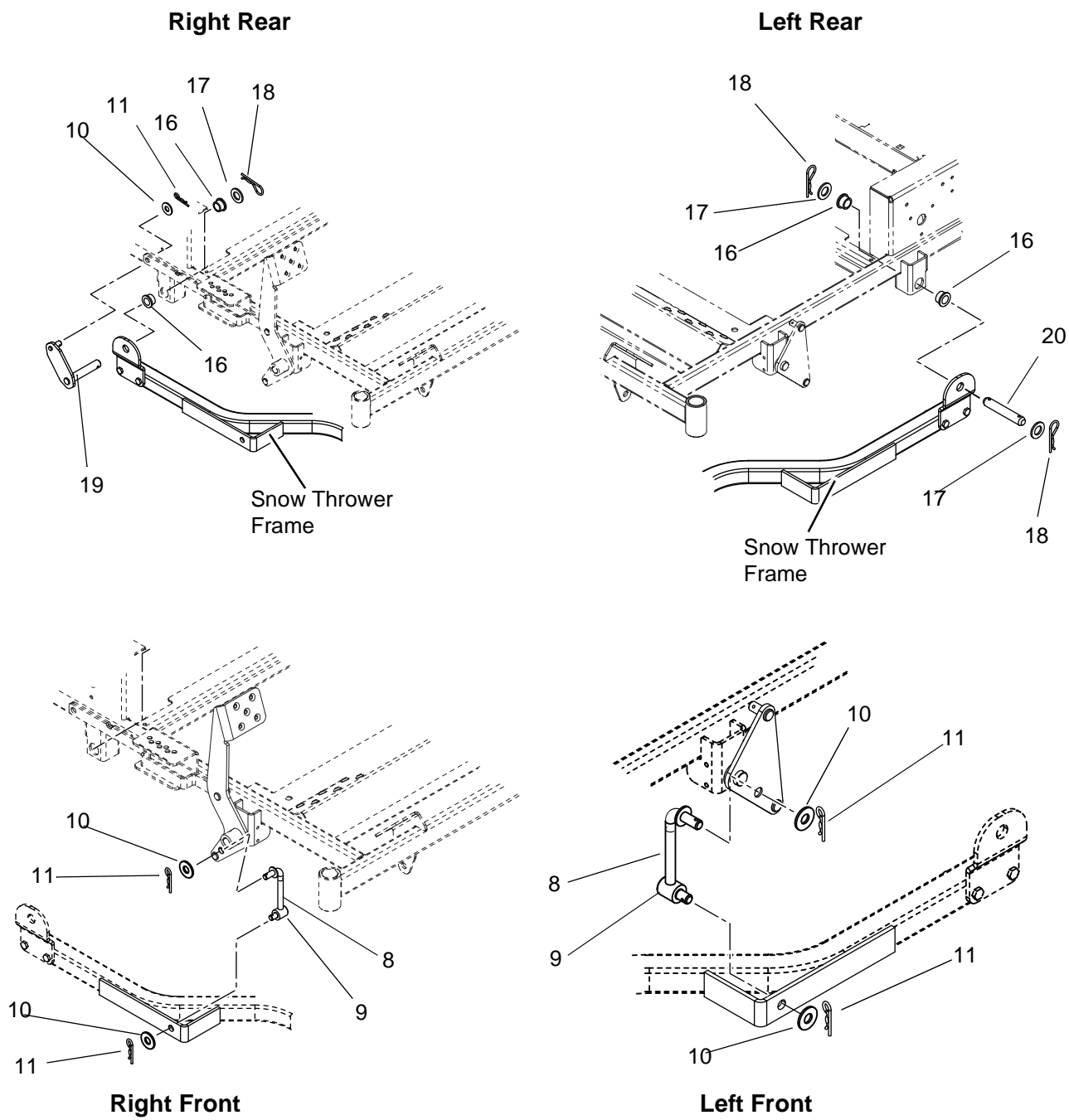


Figure 8

Place Skid Shoes in Operating Position (Figure 9)

NOTE: The skid shoes are shipped upside down.

1. Remove mounting hardware and skid shoes from snow thrower.

2. Install skid shoes as shown in figure 9.
3. Adjust skid shoes (see *Skid Shoe Adjustment (Figure 14)* on page 17).

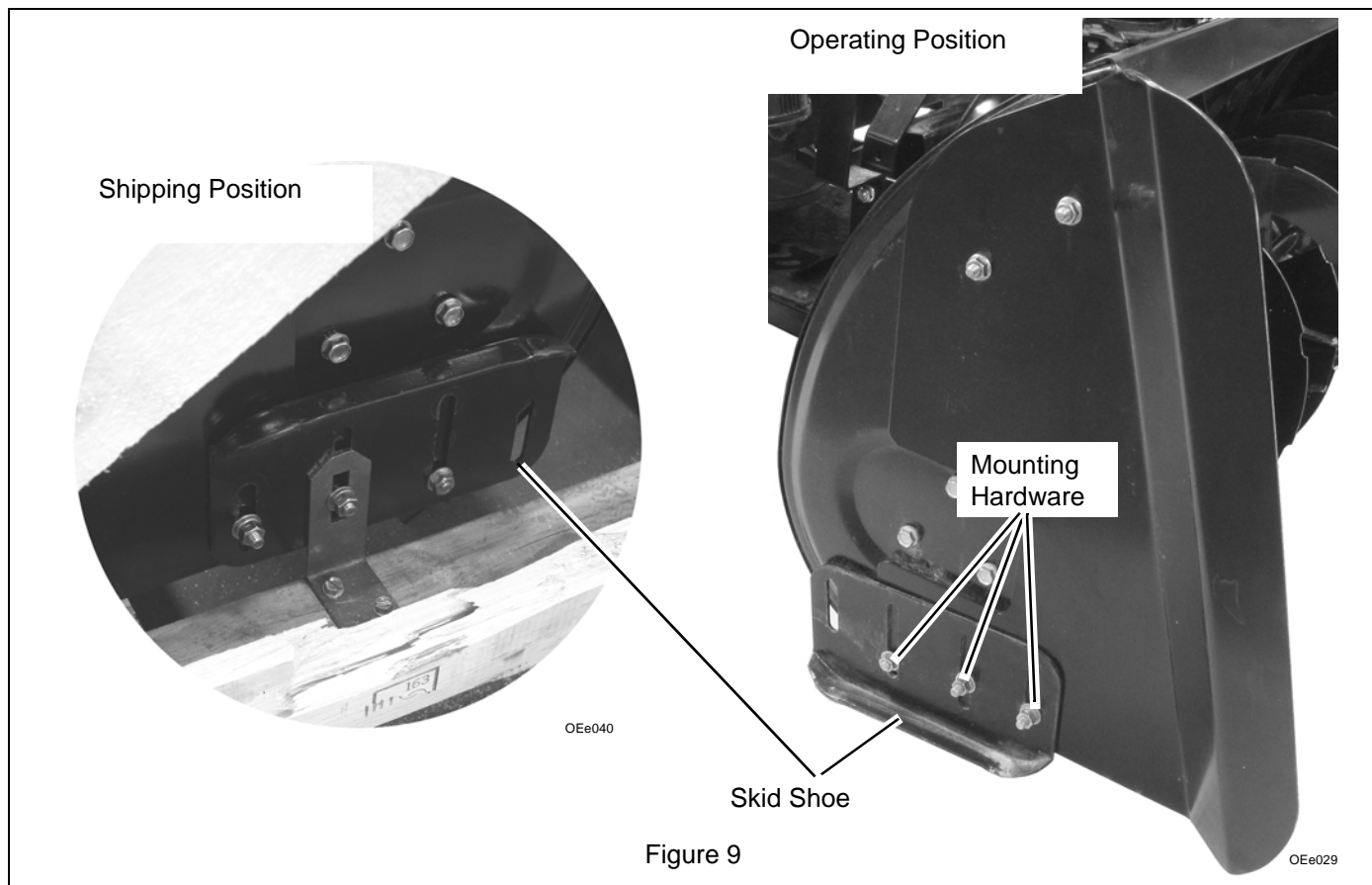
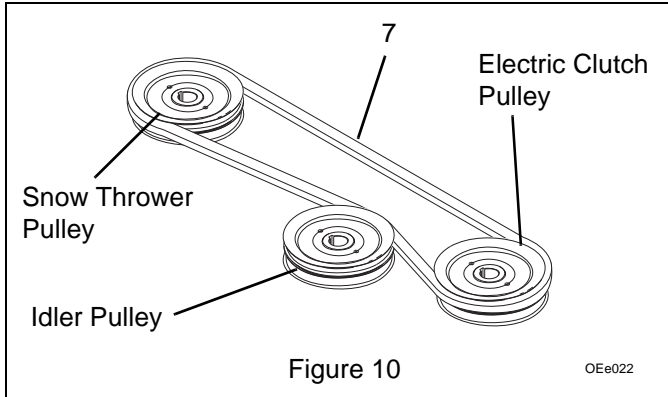


Figure 9

Install PTO Belt (Figure 10)

1. Install PTO belt (item 7) on electric clutch pulley and snow thrower pulley.



Install Snow Thrower Wire Harness (Figure 11)



WARNING: Avoid Electric Shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.

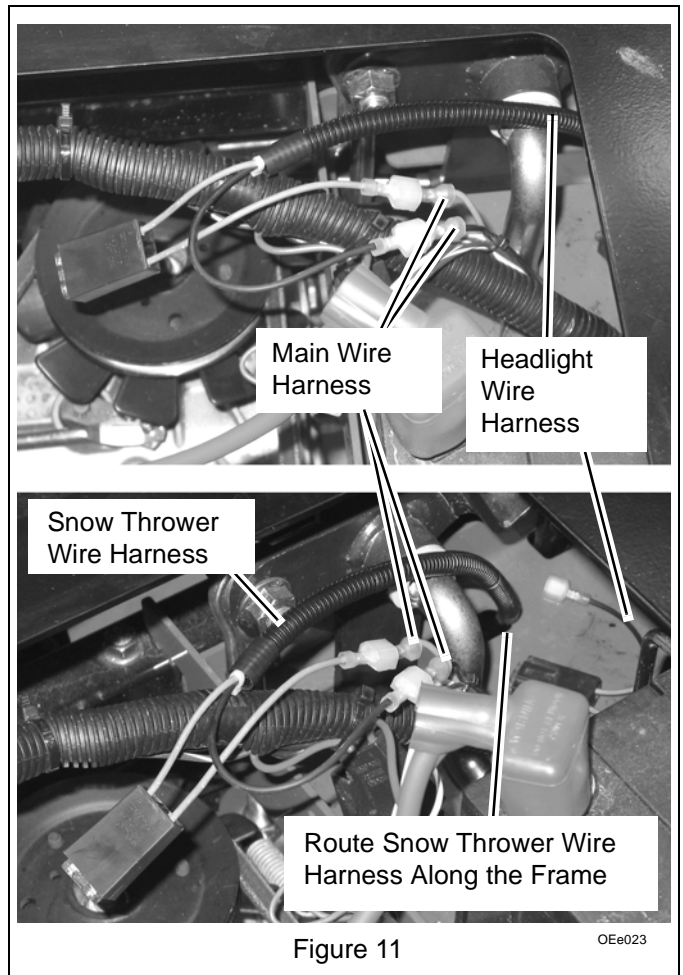
Explosive Gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.

WARNING: NO flames, NO sparks, NO smoking near battery.

1. Lift up seat.
2. Disconnect negative battery cable.
3. Disconnect headlight wire harness from main wire harness.
4. Place headlight wire harness off to the side.
5. Route snow thrower wire harness along the frame.

IMPORTANT: Make sure the harness is clear of all pinch points, hot surfaces or rotating parts that can damage the wires.

6. Connect the snow thrower wire harness to the unit's main wire harness, blue wire to blue wire, black wire to black wire.
7. Connect negative battery cable.
8. Put the seat down.



INSTALL COUNTERWEIGHTS

(Figure 12)



WARNING: ALWAYS install counterweights before operating unit with snow thrower attached. ALWAYS remove counterweights when snow thrower is removed from unit.



WARNING: Each counterweight weighs 56 lb (25.54 kg) for a combined total weight of 112 lb (50.8 kg).

1. Position the weight bracket (item 2) in the center of the rear frame rail so the two 1/2" mounting holes align with the holes in the rear frame rail. Use weight bracket as a template to lay out two 7/16" mounting holes in the top of rear frame rail.
2. Drill two 7/16" holes through the upper frame rail as shown in figure 12.
3. Install the weight bracket (item 2) on the rear frame rail with two 3/8"-16 x 1-1/4 hex bolts (item 14) and 3/8"-16 top locking flange nuts (item 15).
4. Install the two cast iron weights (item 3) on weight bracket (item 2) with two 1/2"-13 x 5 hex bolts (item 12) and 1/2"-13 top locking flange nuts (item 13). The bolts go through the weights, weight bracket and frame.

5. Install two hot surface decals (item 6) on unit.
6. Install two reflectors (item 4) on cast iron weight (item 3).

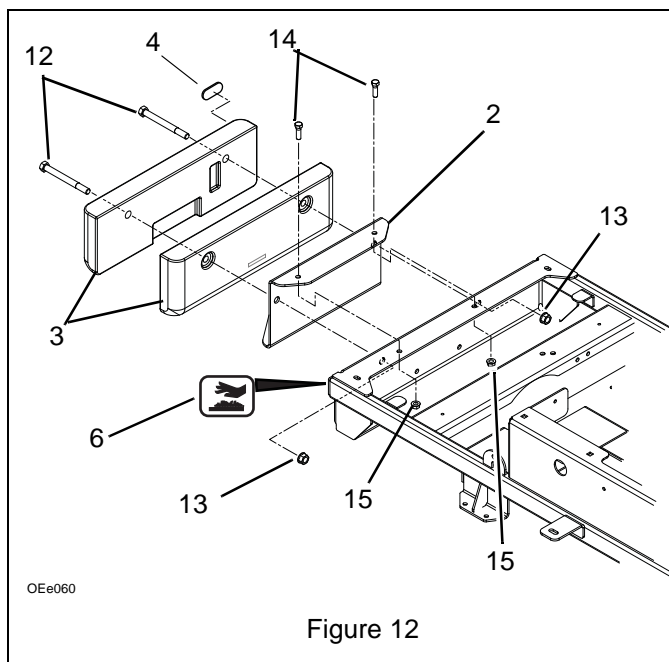


Figure 12

REMOVAL



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.



WARNING: ALWAYS install counterweights before operating unit with snow thrower attached. ALWAYS remove counterweights when snow thrower is removed from unit.

1. Remove counterweights (see figure 12 on page 13).



WARNING: Avoid Electric Shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.

Explosive Gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.

WARNING: NO flames, NO sparks, NO smoking near battery.

2. Disconnect the negative battery cable.

3. Disconnect the snow thrower wire harness from the main wire harness (see figure 11 on page 12).
4. Remove snow thrower wire harness from unit.
5. If installed, connect the headlight wire harness to the main wire harness (see figure 11 on page 12).

IMPORTANT: Connect the blue wire from the headlight wire harness to the blue wire on the main wire harness and connect the black wire from the headlight wire harness to the black wire on the main wire harness.

IMPORTANT: Make sure the headlight wire harness is placed away from any moving parts.

6. Remove PTO belt from electric clutch pulley and snow thrower pulley (see figure 10 on page 12).

IMPORTANT: Ensure the snow thrower wire harness has been disconnected from the unit before removing the snow thrower.

7. Remove snow thrower from unit (see figure 8 on page 10).
8. Readjust the headlights (see *Reposition Headlights* on page 8).
9. Remove snow tires and install two rear turf tires (see figure 5 on page 8).
10. Install mower deck and mower belt. See Owner's Manual.

OPERATION



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

CONTROLS AND FEATURES

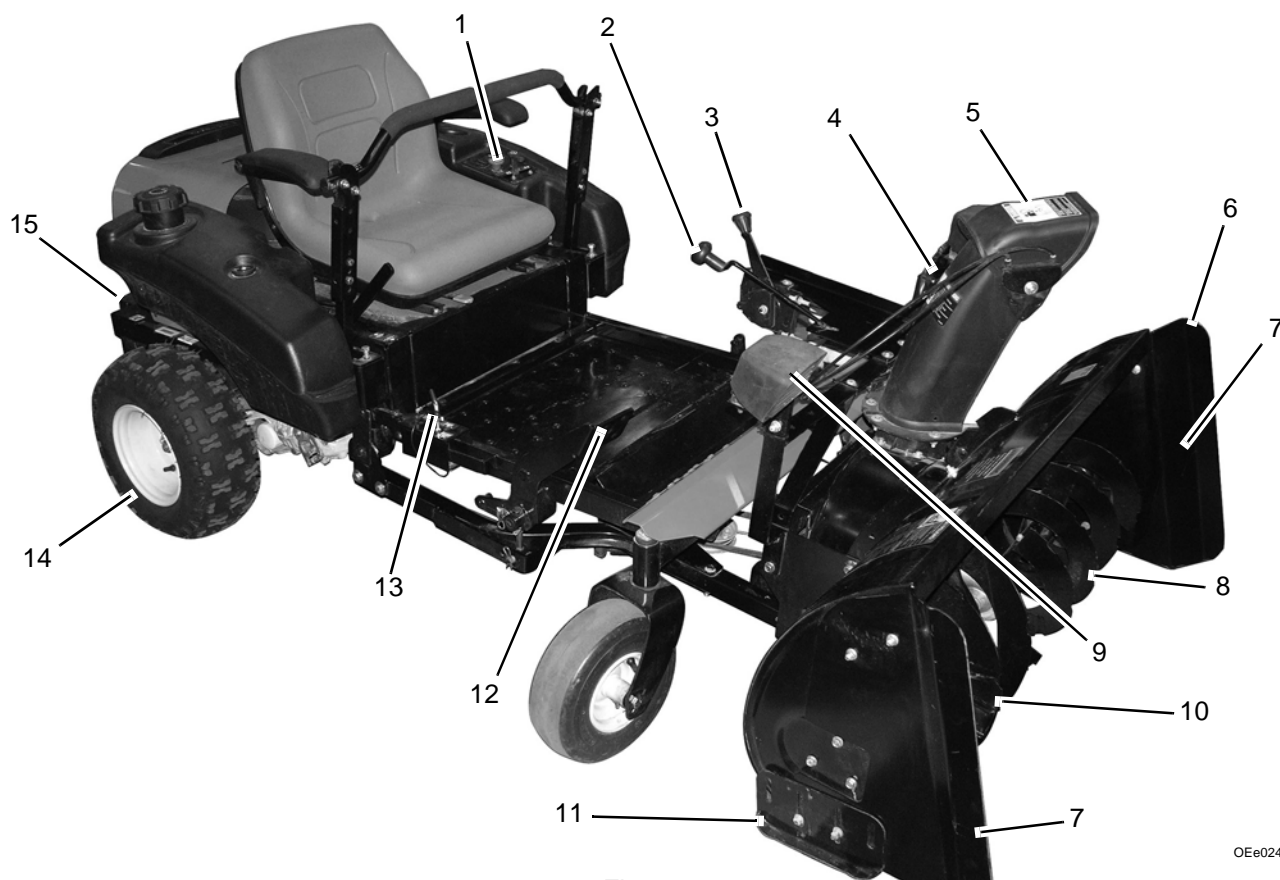


Figure 13

OEe024

1. **PTO** – Engages the auger.
2. **Chute Crank** – Rotates the chute and changes the direction of the snow being discharged.
3. **Chute Deflector Lever** – Controls the chute deflector and changes the height of the snow being discharged.
4. **Chute** – Controls the direction of the snow being discharged.
5. **Chute Deflector** – Controls the height of the snow being discharged.
6. **Snow Thrower** – Throws snow.
7. **Drift Cutter** – Extends the width of the snow thrower from 42 inches to 46 inches (1.06 meters to 1.16 meters).
8. **Auger** – Feeds snow to the impeller and chute to be discharged.
9. **Headlight** – Provides illumination for throwing snow at night.
10. **Scraper Blade** – Allows better contact with the surface being cleared and prevents damage to the snow thrower housing.
11. **Skid Shoe** – Controls the amount of clearance between the scraper blade and the ground.
12. **Attachment Lift Pedal** – Raises and lowers the snow thrower.
13. **Height Adjustment Pin** – Adjusts the height of the snow thrower.
14. **Snow Tire** – Allows for better snow and ice traction.
15. **Counterweight** – Provides stability and added weight for improved traction.

BEFORE EACH USE



WARNING: Safety interlock failure and improper operation of unit can result in death or serious injury. Check safety interlock system before each use to make sure it is functioning properly.

1. Check the safety interlock system of the unit. See Owner's Manual.
2. Check snow thrower parts for wear, deterioration, or damage.
3. Make sure counterweights are installed.

IMPORTANT: DO NOT operate snow thrower without the counterweights. If the counterweights need to be installed, go to *Install Counterweights* on page 13.

4. Make sure all hardware is tight.
5. Make sure auger is clear of ice and snow.
6. Make sure skid shoes are adjusted properly (see *Skid Shoe Adjustment (Figure 14)* on page 17).

STARTING THE SNOW THROWER

IMPORTANT: Use oil recommended in the Engine Manual for cold weather operation.

1. Start engine according to instructions in the unit's operator's manual, and allow the engine to warm-up for 3 – 5 minutes.
2. Pull up the PTO switch to engage the auger and throw snow.

STOPPING THE SNOW THROWER IN AN EMERGENCY

Shut off the PTO, bring steering levers back to neutral, turn off the engine, and set the parking brake.

SNOW REMOVAL



WARNING: NEVER direct discharge towards bystanders or windows. DO NOT allow anyone in front of the snow thrower while operating the unit.

IMPORTANT: Make sure that the auger is clear of ice and snow prior to starting the engine.

NOTE: See *Operating Tips* on page 15 prior to clearing snow.

1. Warm-up the engine and transmission (see *Starting the Snow Thrower* on page 15).
2. Lower the snow thrower.
3. Place throttle lever at full throttle.
4. Pull up the PTO switch to engage the auger.

IMPORTANT: DO NOT overload snow thrower capacity by attempting to clear snow at too fast a rate. Use a slow speed to clear deep or hard packed snow.

5. Choose an appropriate ground speed.

6. Choose the direction and height of snow discharge.

- Use the chute crank to control the direction of snow discharge.
- Use the chute deflector lever to control the height of snow discharge.

NOTE: Disengage the PTO to disengage the auger.

OPERATING HEADLIGHTS

Turn ignition switch to the headlight position to turn on the headlights. Turn ignition switch to the run position to turn off the headlights.

OPERATING TIPS

Snow is best removed as soon as possible after a snow fall.

DO NOT use the snow thrower to push snow.

To clear an area, run unit in an overlapping series of paths. For large areas; start in the middle and throw snow to each side, so snow is not cleared more than once.

ALWAYS direct snow away from area to be cleared and with direction of the wind.

Before removing snow, clear the area of any debris that might be caught in the auger.

For maximum snow removal and discharge, maintain a high engine r.p.m. (full throttle) and operate at a slow ground speed.

For deep snow, drive forward into the snow and stop forward travel until the auger clears the snow. Repeat this method until a path is cleared out. On the second pass, overlap the first path enough to allow the snow thrower to throw snow without repeated stopping and starting.

For extremely deep snow, raise the snow thrower as high as possible to remove the top layer of snow. Drive forward only until the front tires reach the uncleared bottom layer of snow and wait until the auger clears the snow. Reverse the unit and lower the snow thrower to the ground. Drive forward until the snow again becomes too deep. Repeat this process until the snow is cleared.

If snow thrower becomes clogged with snow or other debris. SHUT OFF the engine immediately, wait for all moving parts to stop, and clear the snow thrower.

MAINTENANCE



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

Ariens/Gravely Dealers will provide any service or adjustments which may be required to keep your unit operating at peak efficiency.

Interval	Task	Action
Before Each Use	Check Fasteners	<ul style="list-style-type: none"> Check mounting hardware that attaches the snow thrower to the unit and all other fasteners. Check shear bolts for damage. Replace any shear bolt(s) that are damaged (see <i>Shear Bolt Replacement</i> on page 18). Replace fasteners that are missing or damaged. Tighten all nuts and bolts to the correct torque value.
	Check Scraper Blade	Check scraper blade for wear. Replace scraper blade if scraper blade has worn to the point that the snow thrower housing will soon be touching the ground. See <i>Scraper Blade Replacement</i> on page 18 to replace the scraper blade.
	Check Skid Shoes	Check skid shoes for proper adjustment and for wear. Replace skid shoes if there is excessive wear. See on page 17 to adjust or replace the skid shoes.
After Each Use	Clean Snow Thrower	Remove ice and snow from snow thrower and unit.
Every Season	Check Auger Belt	Check Auger belt for wear or damage; replace if necessary (see <i>Auger Belt Replacement</i> on page 19).
	Check PTO Belt	Check PTO belt for wear or damage; replace if necessary (see <i>PTO Belt Replacement</i> on page 18).
	Lubricate Snow Thrower	<ul style="list-style-type: none"> Oil the base of the lower chute where it rotates on the chute adapter. See item 31 and 36 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. Oil the pivot point on the upper chute and lower chute. See item 22 and 31 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. Oil the bushings that hold the chute crank to the chute crank bracket. See item 16 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. Oil the chute deflector cables. See item 23 and 24 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. Oil any other pivot points.

SERVICE AND ADJUSTMENTS



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

SKID SHOE ADJUSTMENT OR REPLACEMENT

Skid Shoe Adjustment (Figure 14)

Skid shoes control the amount of clearance between the scraper blade and the ground and should be adjusted as conditions require.

IMPORTANT: Allow 1/8 in. (3 mm) between scraper blade and hard smooth surfaces. Allow 1-1/4 in (30 mm) between scraper blade and uneven or gravel surfaces.

1. Place snow thrower on a hard level surface.
2. Place a spacer with the appropriate thickness under each end of scraper blade.

NOTE: Adjust both skid shoes to the same height to keep the snow thrower and scraper blade level.

3. Loosen mounting hardware and adjust skid shoes up or down. Tighten mounting hardware.

Skid Shoe Replacement (Figure 14)

NOTE: Replace skid shoes if there is excessive wear. Always replace both skid shoes at the same time.

NOTE: For part numbers of the skid shoe and mounting hardware go to *Snow Thrower and Auger Assembly* on page 30.

1. Place snow thrower on blocks.
2. Remove mounting hardware and skid shoes from snow thrower. Discard skid shoes.
3. Install new skid shoes on snow thrower with mounting hardware.

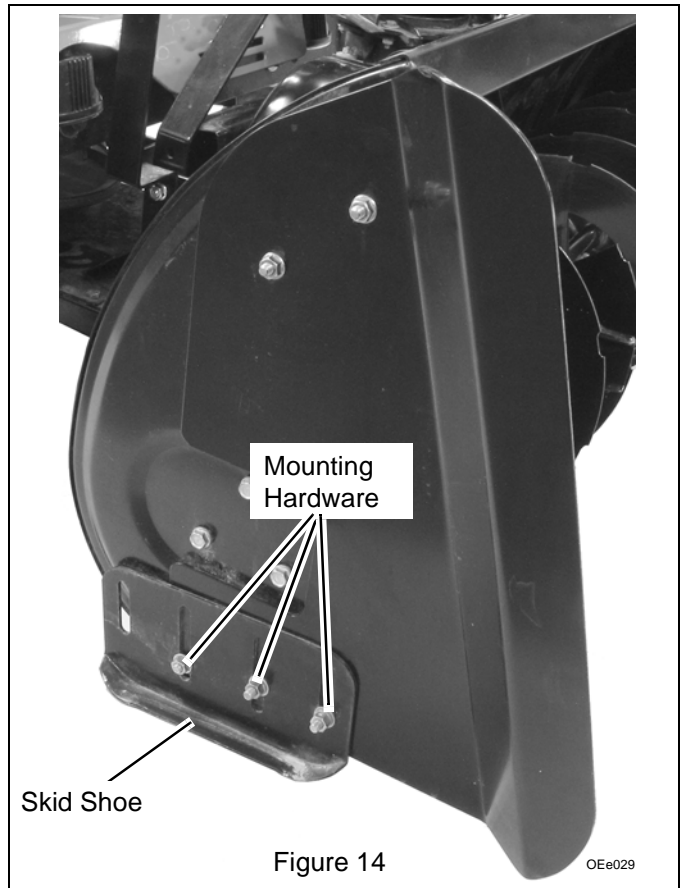


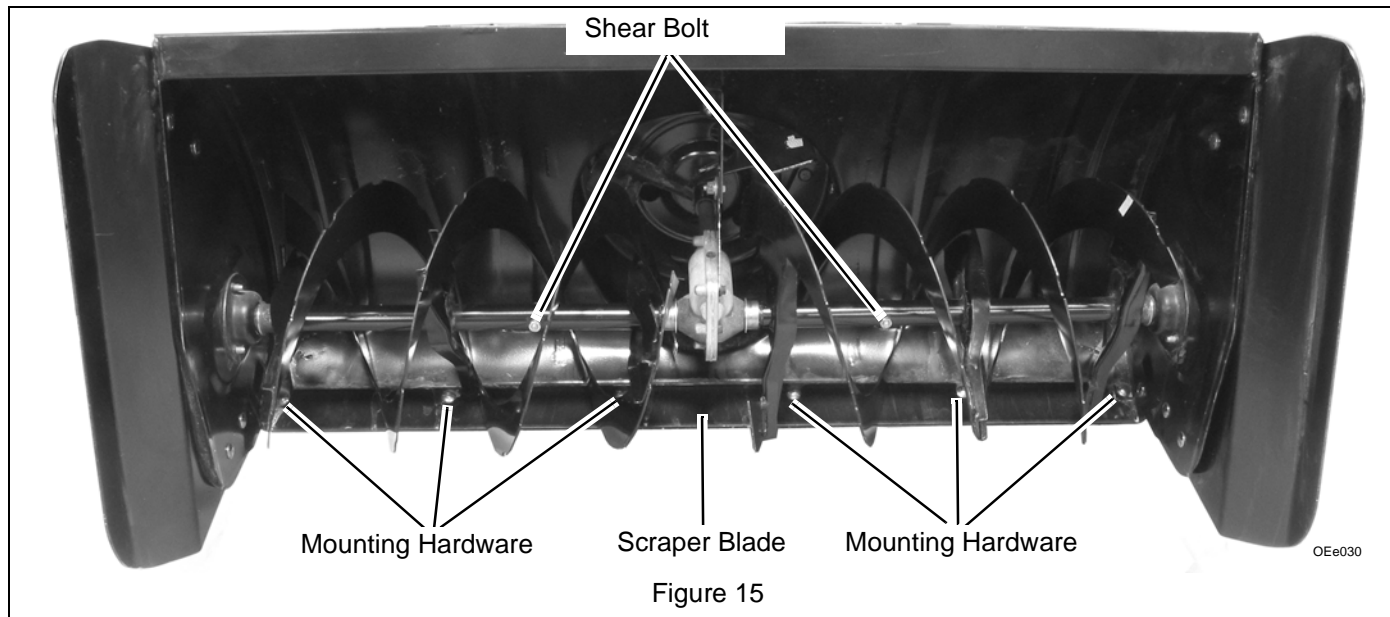
Figure 14

SCRAPER BLADE REPLACEMENT (FIGURE 15)

NOTE: Replace scraper blade if scraper blade has worn to the point that the snow thrower housing will soon be touching the ground.

NOTE: For part numbers of the scraper blade and mounting hardware go to *Snow Thrower and Auger Assembly* on page 30.

1. Place snow thrower on blocks.
2. Remove mounting hardware and scraper blade from snow thrower. Discard scraper blade.
3. Install new scraper blade on snow thrower with mounting hardware.

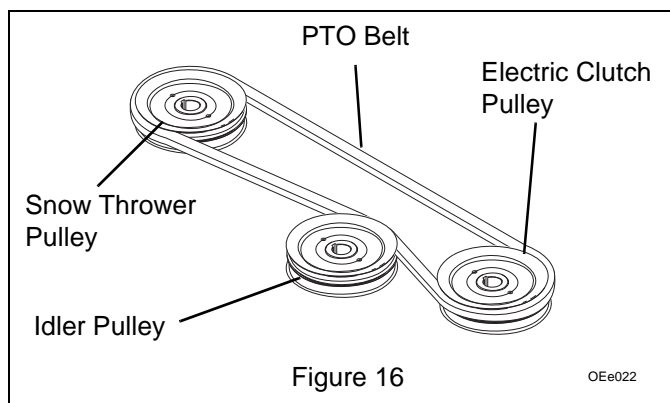


SHEAR BOLT REPLACEMENT (FIGURE 15)

IMPORTANT: The auger has shear bolts and locknuts that are designed to shear if a foreign object or ice jams the auger.

NOTE: For part numbers of the shear bolts and locknuts, see items 5 and 12 in the *Snow Thrower and Auger Assembly* illustration on page 30.

1. Shut off engine and lower snow thrower to the ground.
2. Replace the shear bolt(s) and lock nut(s) that has been damaged.



PTO BELT REPLACEMENT

(Figure 16)

NOTE: For the part number of the PTO belt, see item 10 in the *Reduction Drive Assembly* illustration on page 26.

1. Shut off engine and lower snow thrower to the ground.
2. Remove PTO belt from electric clutch pulley and snow thrower pulley. Discard PTO belt.
3. Install the new PTO belt on electric clutch pulley and snow thrower pulley.

AUGER BELT REPLACEMENT

Remove Snow Thrower from Unit

1. Shut off engine and lower snow thrower to the ground.



WARNING: Avoid Electric Shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.

Explosive Gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.

WARNING: NO flames, NO sparks, NO smoking near battery.

2. Disconnect the negative battery cable.
3. Disconnect the snow thrower wire harness from the main wire harness (see figure 11 on page 12).
4. Remove snow thrower wire harness from unit.
5. Remove PTO belt from electric clutch pulley and snow thrower pulley (see figure 16 on page 18).

IMPORTANT: Make sure the snow thrower wire harness has been disconnected from the unit before removing the snow thrower.

6. Remove snow thrower from unit (see figure 8 on page 10).

Replace Auger Belt (Figure 17)

NOTE: For the part number of the auger belt, see item 27 in the *Reduction Drive Assembly* illustration on page 26.

IMPORTANT: If the drift cutters are installed, the snow thrower can be placed in the storage position (see figure 24 on page 22) to replace the auger belt. If drift cutters are not installed, DO NOT place snow thrower in the storage position to replace the auger belt.

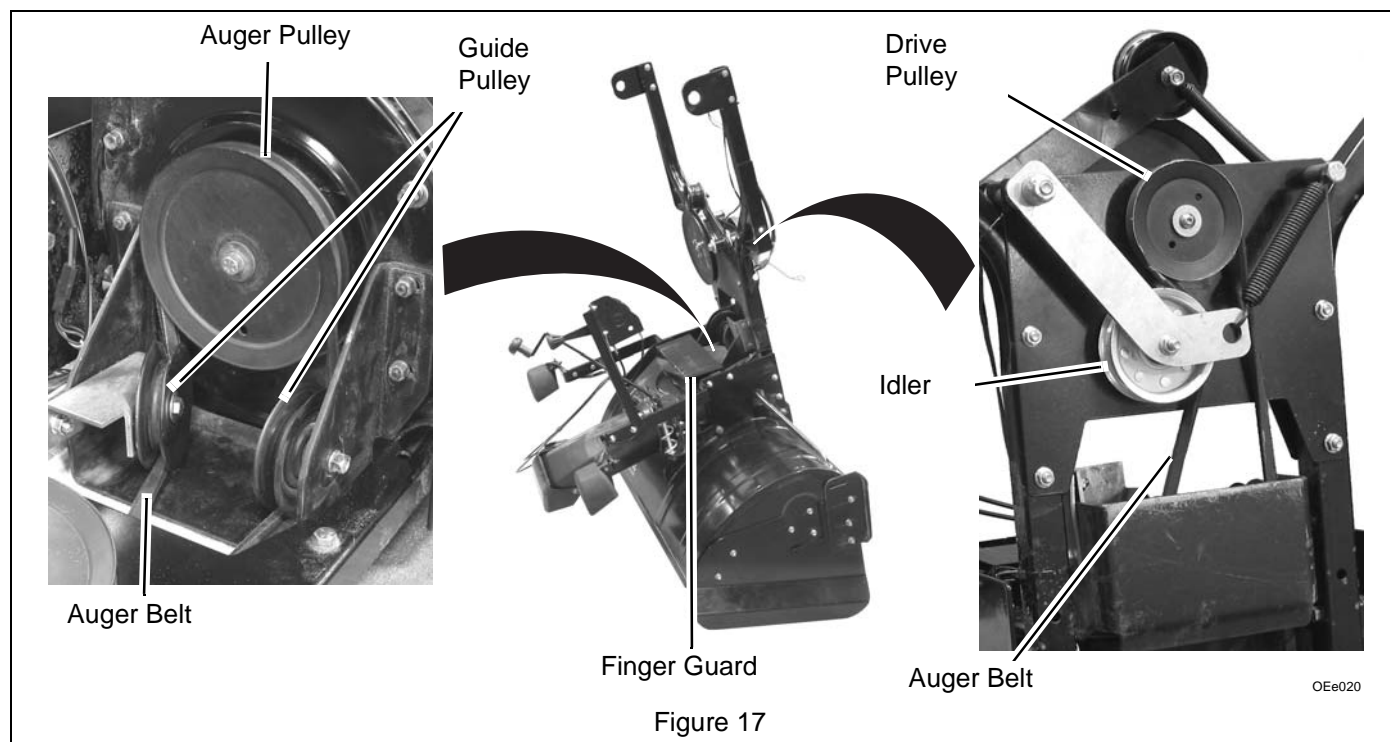
1. Remove finger guard from snow thrower.
2. Pull back idler and remove auger belt from drive pulley.
3. Remove auger belt from guide pulleys and auger pulley. Discard auger belt.
4. Install new auger belt on auger pulley and drive pulleys.
5. Pull back on idler and install new auger belt on drive pulley. Slowly release idler until idler rests firmly against the new auger belt.

Install Snow Thrower on Unit

1. Slide snow thrower under unit.
2. Install snow thrower on unit (see figure 8 on page 10).
3. Install PTO belt on electric clutch pulley and snow thrower pulley (see figure 16 on page 18).
4. Route snow thrower wire harness through hole in frame (see figure 11 on page 12).
5. Connect snow thrower wire harness to main wire harness (see figure 11 on page 12).

IMPORTANT: Make sure the snow thrower wire harness is placed away from any moving parts.

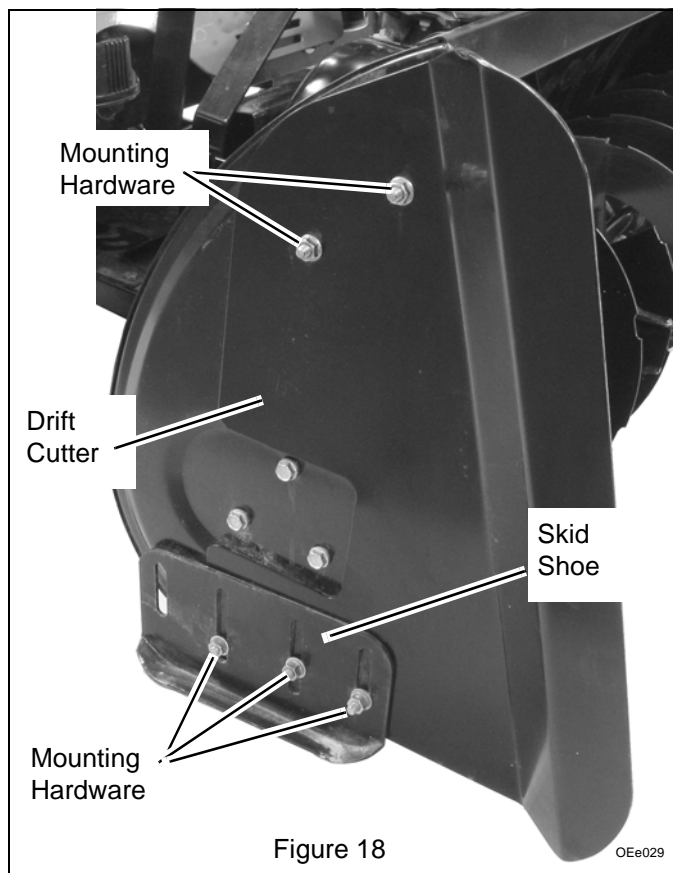
6. Connect negative battery cable.



DRIFT CUTTER REMOVAL (FIGURE 18)

Drift cutters extend the width of the snow thrower from 42 inches to 46 inches (1.06 meters to 1.16 meters). If the extra width is not needed, the drift cutters can be removed.

1. Remove mounting hardware, skid shoe, and drift cutter from snow thrower.
2. Install skid shoe on snow thrower with mounting hardware.
3. Repeat steps 1 and 2 for the opposite side.

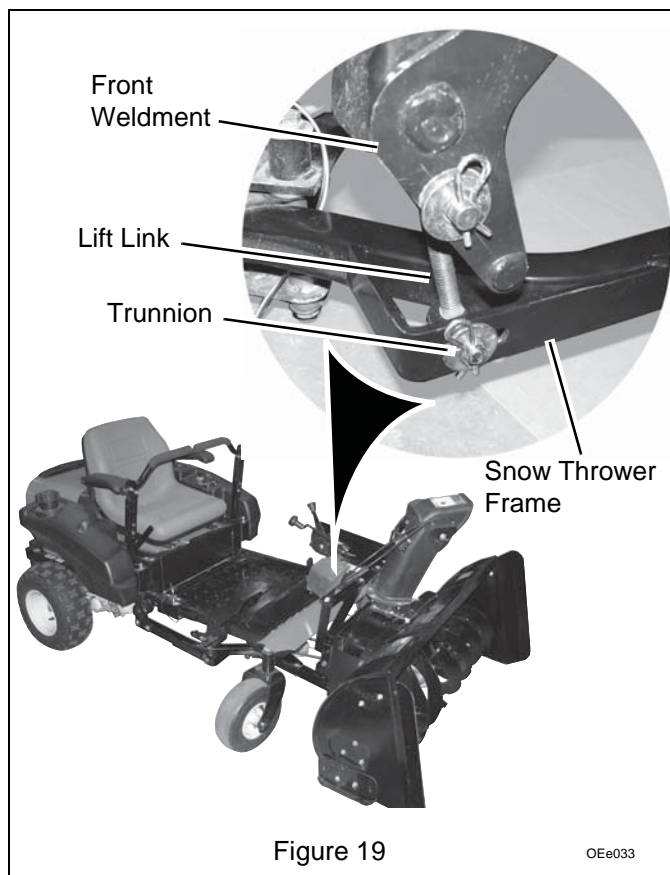


SNOW THROWER CLEARANCE ADJUSTMENT (FIGURE 19)

NOTE: Adjust the snow thrower clearance if the snow thrower is not touching the ground when the height adjustment pin (see figure 13 on page 14) is in the lowest position.

1. Place the height adjustment pin in the lowest position.
2. Lower the snow thrower as far as possible.
3. Remove trunnion from the snow thrower frame on each side of the unit.
4. Turn trunnion clockwise until trunnion aligns with the snow thrower frame.
5. Install trunnion on the snow thrower frame on each side of the unit.

NOTE: Always make sure the link is threaded completely into the trunnion.



HEADLIGHT ADJUSTMENT (FIGURE 20)

The headlight beam can be adjusted to:

1. Shine further out in front of unit.

Loosen top pivot nut, tilt headlight up to the selected position, tighten top pivot nut.

2. Shine closer in front of unit.

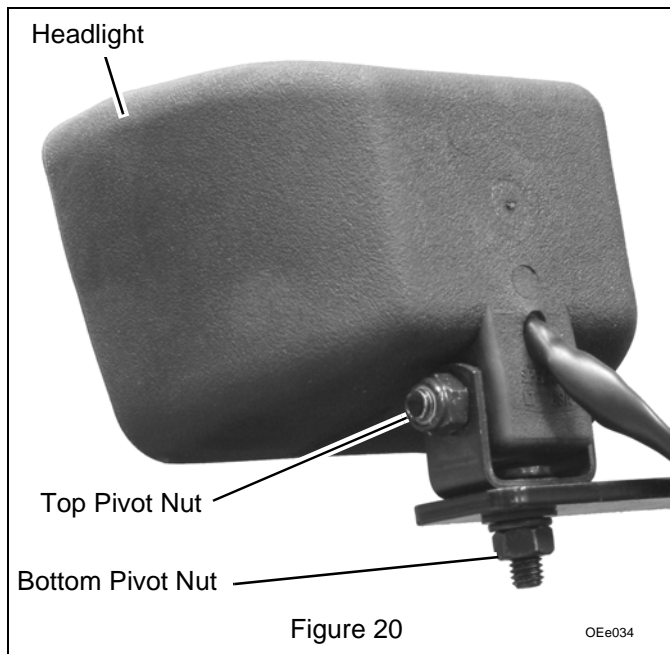
Loosen top pivot nut, tilt headlight down to selected position, tighten top pivot nut.

3. Shine further to the side of unit.

Loosen bottom pivot nut, turn headlight out to selected position, tighten bottom pivot nut.

4. Shine closer to side of unit.

Loosen bottom pivot nut, turn headlight in to the selected position, tighten bottom pivot nut.

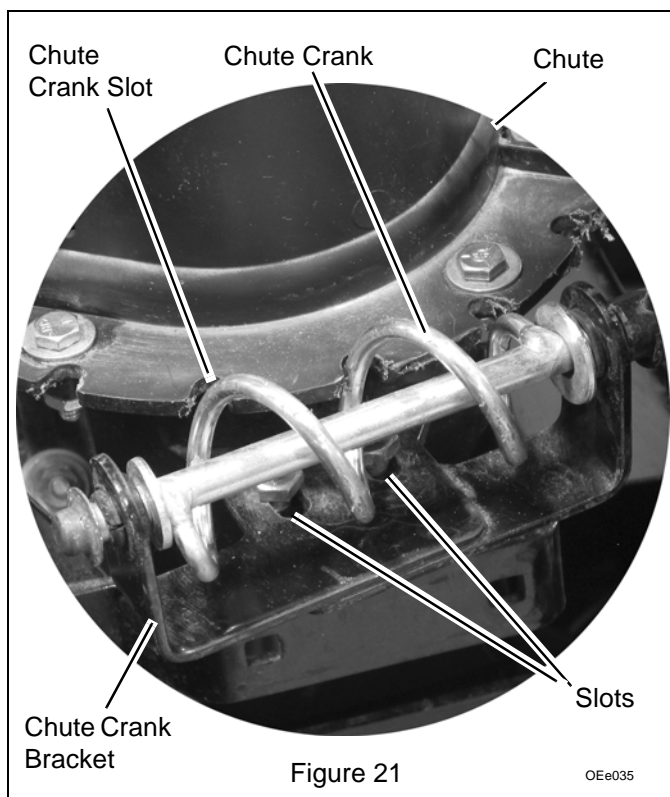


CHUTE CRANK ADJUSTMENT

(Figure 21)

NOTE: Adjust the chute crank if the chute does not turn when using the chute crank.

1. Loosen mounting hardware on chute crank bracket.
2. Slide chute crank bracket towards the chute until the chute crank fits into the chute crank slot as shown in figure 21.
3. Tighten mounting hardware on chute crank bracket.

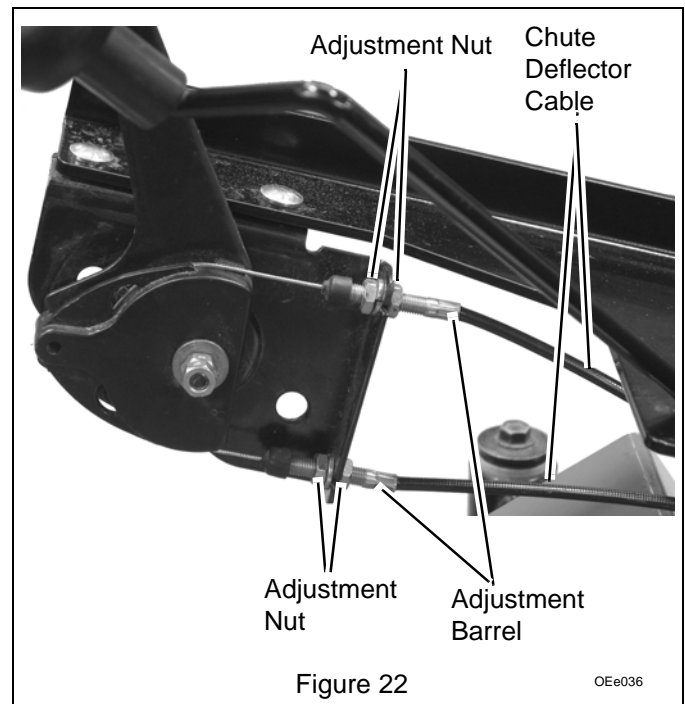


CHUTE DEFLECTOR CABLE ADJUSTMENT

(Figure 22)

NOTE: Adjust the chute deflector cables if the chute deflector does not move up or down properly.

1. Loosen adjustment nuts.
2. Turn adjustment barrel on each chute deflector cable until chute deflector cables are taunt.
3. Tighten adjustment nuts.

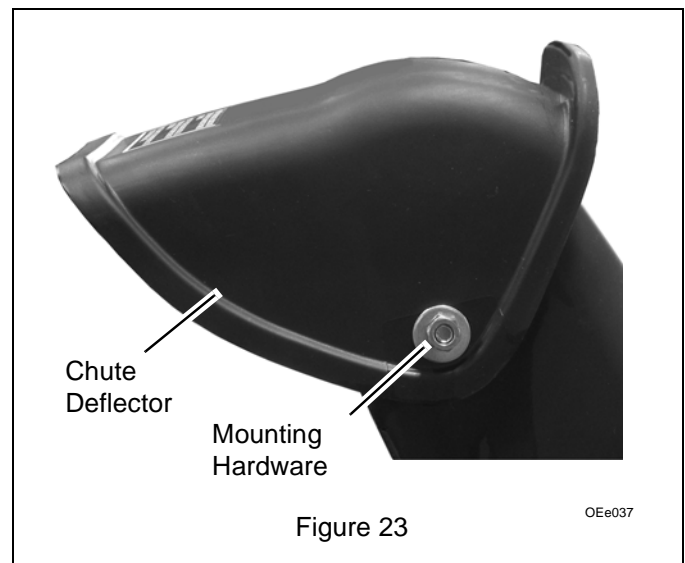


CHUTE DEFLECTOR ADJUSTMENT

(Figure 23)

NOTE: Adjust the chute deflector if the chute deflector does not stay in the selected position.

To adjust, tighten mounting hardware until the chute deflector holds the selected position.



STORAGE



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

If the drift cutters are installed, the snow thrower can be placed in the storage position (figure 24). NEVER place snow thrower in the storage position without the drift cutters installed.

IMPORTANT: NEVER spray unit with high-pressure water. DO NOT store unit outdoors.

Clean plastic surfaces with sponge and mild detergent. Dry with a soft cloth.

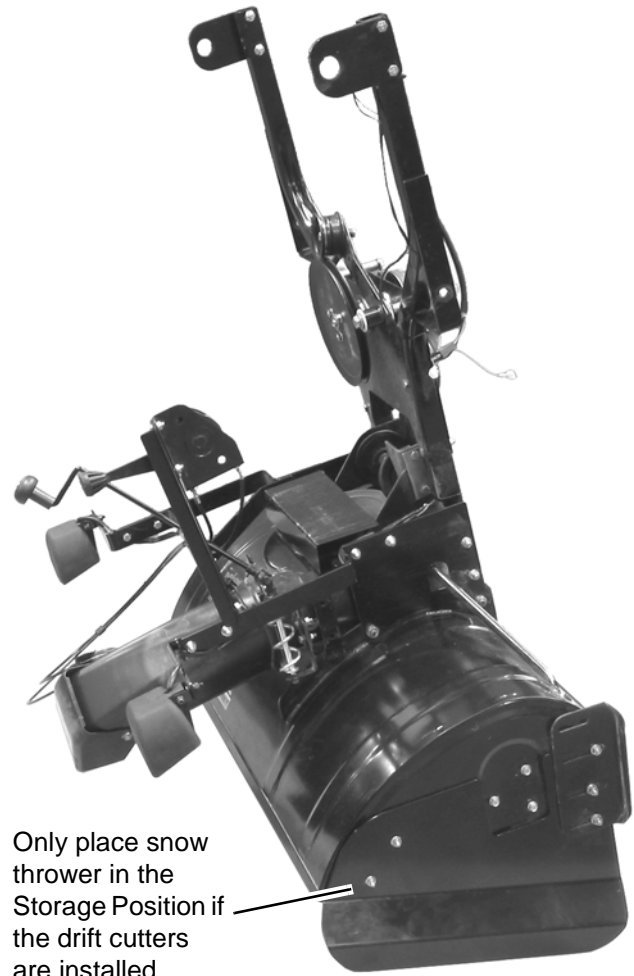
Remove all snow, ice, salt, dirt, grease, etc. from snow thrower and unit.

Store in a clean, dry area.

Ensure all fasteners are properly tightened. Inspect moving parts for damage and wear.

Touch up all rusted or chipped painted surfaces.

Storage Position



Only place snow thrower in the Storage Position if the drift cutters are installed.

Figure 24

OEe030

SPECIFICATIONS

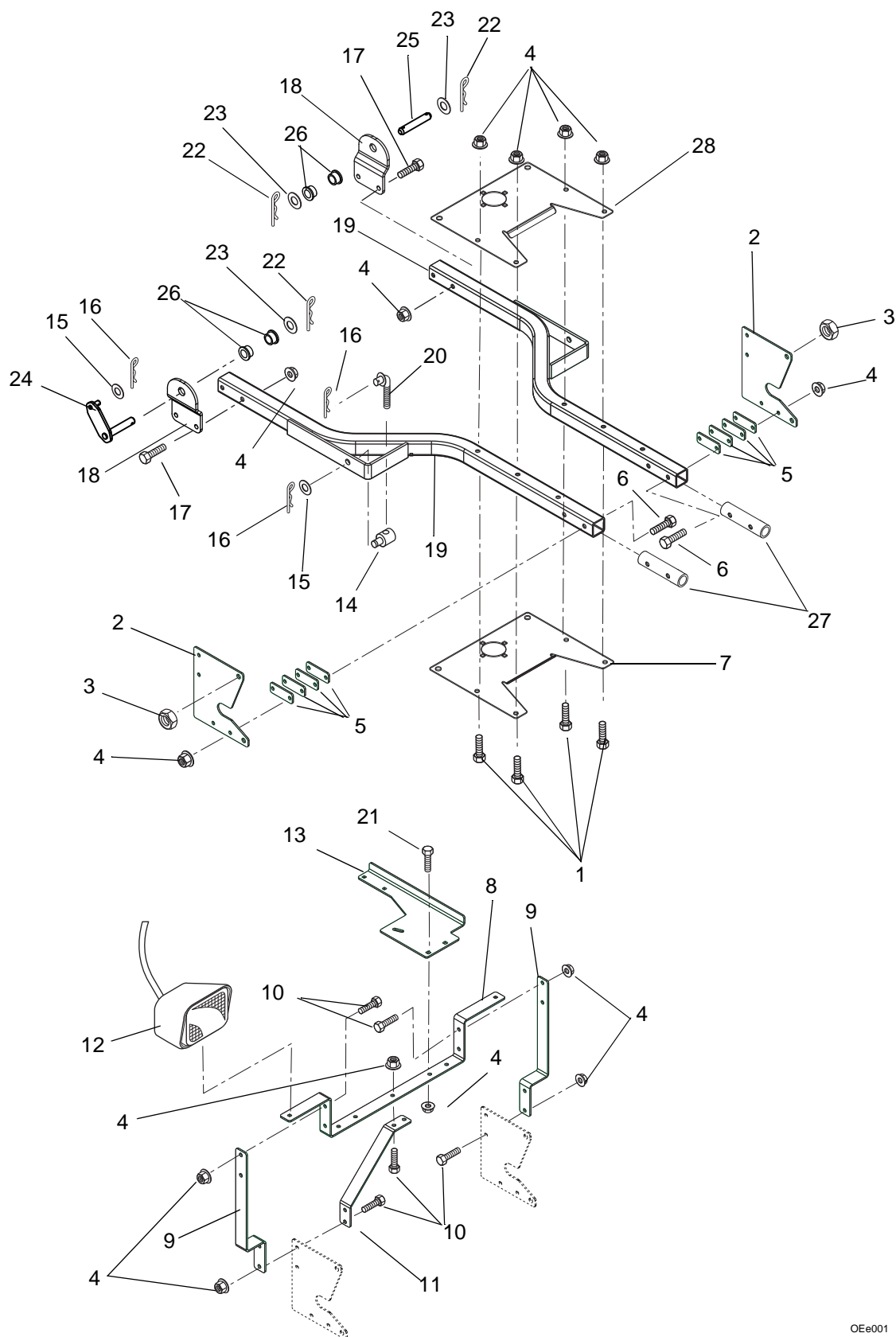
Model	815034
Serial Number	> 101
Clearing Width with Drift Cutter – in. (m)	46 (1.16)
Clearing Width without Drift Cutter – in. (m)	42 (1.06)

TROUBLESHOOTING

Problem	Probable Cause	Correction
The headlights do not turn on or shine in the wrong direction.	<ol style="list-style-type: none"> 1. The ignition switch is not turned to the headlight position. 2. The snow thrower wire harness is not connected to the main wire harness. 3. The headlights are out of adjustment. 	<ol style="list-style-type: none"> 1. Turn ignition switch to the headlight position (see <i>Operating Headlights</i> on page 15). 2. Connect the snow thrower wire harness to the main wire harness (see <i>Install Snow Thrower Wire Harness</i> on page 12). 3. Adjust the headlights (see <i>Headlight Adjustment</i> on page 20).
Auger does not engage.	<ol style="list-style-type: none"> 1. Auger belt is broken. 2. PTO belt is broken. 3. Shear bolt(s) have been sheared. 4. Operator presence switch is not depressed or is faulty. 	<ol style="list-style-type: none"> 1. Replace auger belt (see <i>Auger Belt Replacement</i> on page 19). 2. Replace PTO belt (see <i>PTO Belt Replacement</i> on page 18). 3. Replace shear bolt(s) (see <i>Shear Bolt Replacement</i> on page 18). 4. See unit's Owner's Manual or contact your dealer.
Snow thrower does not touch the ground with the height adjustment pin in the lowest position.	<ol style="list-style-type: none"> 1. Snow thrower clearance is out of adjustment. 	<ol style="list-style-type: none"> 1. Adjust snow thrower clearance (see <i>Snow Thrower Clearance Adjustment (Figure 19)</i> on page 20).
Chute does not rotate or is hard to rotate.	<ol style="list-style-type: none"> 1. Chute and / or chute crank is frozen in place. 2. The chute crank needs to be lubricated. 3. The chute needs to be lubricated. 4. Chute crank is out of adjustment. 	<ol style="list-style-type: none"> 1. Thaw out chute and / or chute crank. 2. Oil the bushings that hold the chute crank to the chute crank bracket. See item 16 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. 3. Oil the base of the lower chute where it rotates on the chute adapter. See item 31 and 36 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. 4. Adjust chute crank (see <i>Chute Crank Adjustment</i> on page 21).
Chute deflector does not operate properly.	<ol style="list-style-type: none"> 1. Chute deflector cable(s) and / or chute deflector is frozen in place. 2. The chute deflector needs to be lubricated. 3. Chute deflector cable(s) are out of adjustment. 4. Chute deflector mounting hardware is not tight enough. 	<ol style="list-style-type: none"> 1. Thaw out chute deflector cable(s) and / or chute deflector. 2. Oil the pivot point on the upper chute and lower chute. See item 22 and 31 in the <i>Snow Chute and Chute Crank Assembly</i> illustration on page 28. 3. Adjust chute deflector cables (see <i>Chute Deflector Cable Adjustment</i> on page 21). 4. Tighten chute deflector mounting hardware (see <i>Chute Deflector Adjustment</i> on page 21).

PARTS LIST

FRAME ASSEMBLY

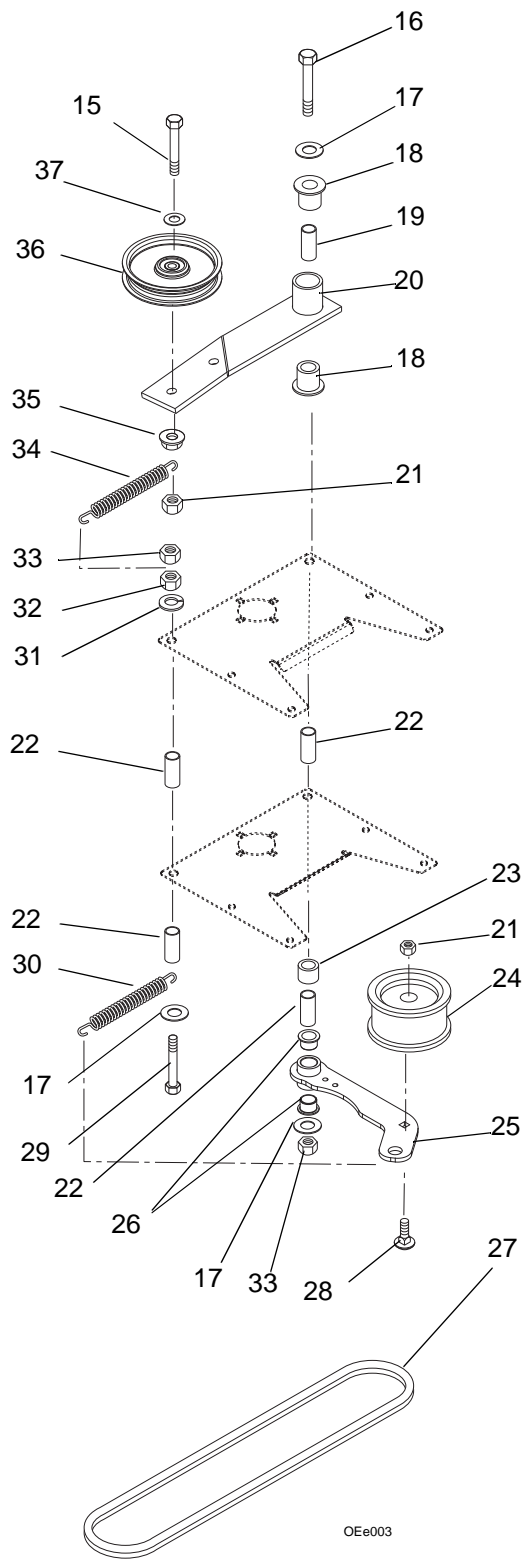
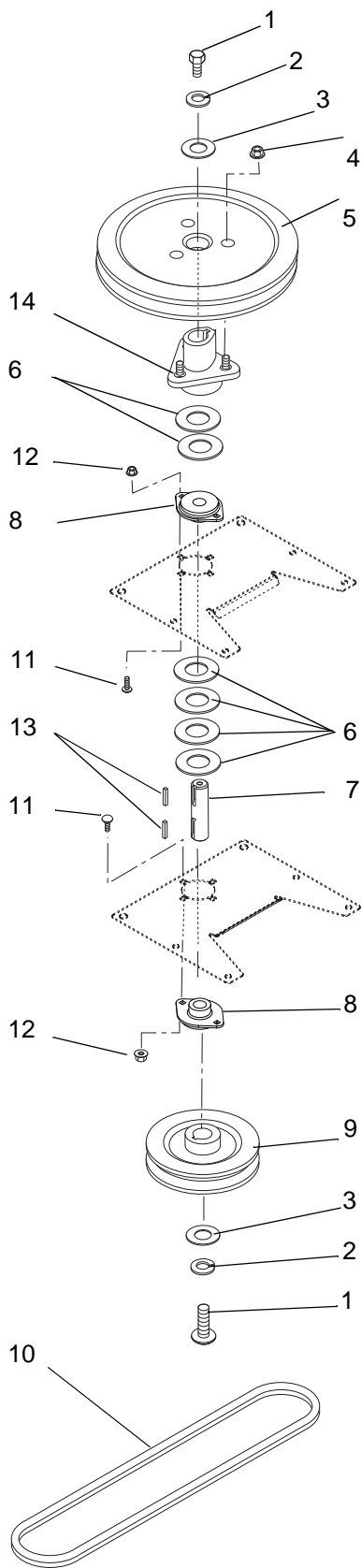


OEe001

FRAME ASSEMBLY (CONTINUED)

Item	Part No.	Qty.	Description
1	05958400	4	Hex Bolt, .38-16 x 2.50 Grade 5
2	03788751	2	Plate, Sno-Thro Mount
3	06536300	4	Nut, Locking, Center .50-13
4	06542000	23	Nut, Locking, Top, Flange .38-16
5	00264551	8	Plate, Shim
6	05957800	4	Bolt, Hex .38-16 x 3.00 Grade 5
7	00260351	1	Plate, Subframe
8	00263751	1	Light-Bar, Snow Throw
9	00263651	2	Support, Light-Bar, Snow Throw
10	05948700	9	Bolt, Hex .38-16 x 1.00 Grade 5
11	00266151	1	Gusset, Light-Bar
12	02463600	2	Headlight
13	00264451	1	Bracket, Deflector Control
14	01590400	2	Trunnion
15	06430200	5	Washer, Flat Steel .531 x 1.250 x .100
16	06714900	5	External Hair Pin – #16 Black Zinc
17	05958400	4	Hex Bolt, .38-16 x 2.5 Grade 5
18	03788851	2	Pivot Bracket
19	03788651	2	Weldment, Sub-Frame Tube
20	03788900	2	Lift Link
21	06223600	2	Bolt, Round Head Square Neck .38-16 x 1.00 Grade 5
22	06714000	3	Pin, Hair Int. .15 x 2.937
23	06439000	3	Washer, Flat Steel .812 x 1.50 x .135
24	03838600	1	Pin, Right Rear Lift Pivot
25	03789100	1	Pin, Left Rear Lift Pivot
26	05503900	4	Bushing, .75 x 1.00 x .625 x 1.25 Flange
27	03967500	2	Tube, Anti-Crush
28	04446351	1	Plate, Subframe Top

REDUCTION DRIVE ASSEMBLY

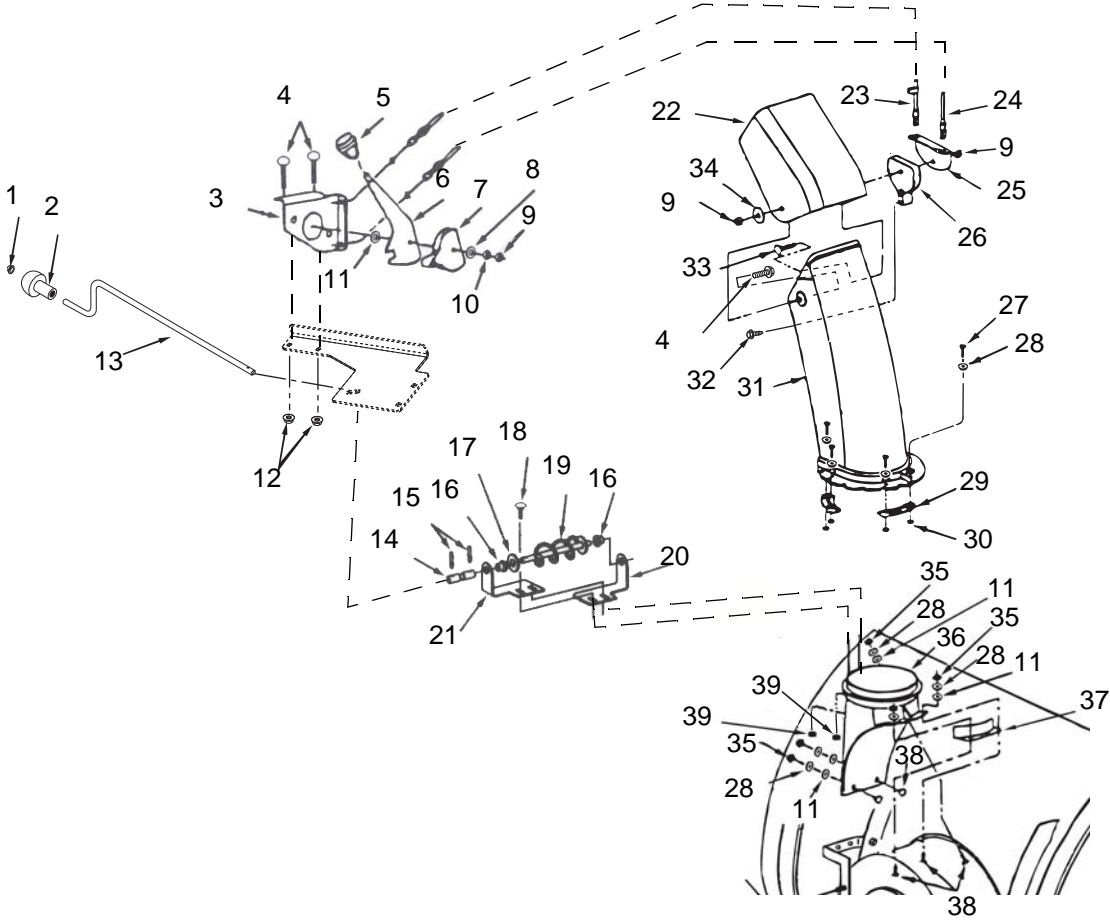


OEe003

REDUCTION DRIVE ASSEMBLY (CONTINUED)

Item	Part No.	Qty.	Description
1	05946800	2	Bolt, Hex .25-20 x .75 Grade 5
2	06308400	2	Washer, Locking .25 x .062 Regular
3	06446300	2	Washer, Flat Steel .344 x 1.125 x .135
4	06530400	3	Nut, Spin Lock Flange .312-18
5	07307000	1	Pulley, V 9.0 x 1.25
6	06444200	6	Washer, Flat Steel .755 x 1.25 x .125
7	00269200	1	Shaft, Zoom Snow Throw
8	03685300	2	Bearing, 2 Bolt Flange.75 ID
9	00169400	1	Sheave, Blower- 4.25 Diameter
10	07227400	1	Belt, HA Raw Laminated (Engine clutch to snow thrower drive pulley.)
11	06215700	4	Bolt, Round Head Square Neck .31-18 x .75 Grade 5
12	06543100	4	Nut, Locking Top Flange .31-18
13	06606000	2	Key, Square .187 x .50 x .187 Hardened
14	62422300	1	Hub Assembly
15	05962900	1	Bolt, Hex .38-16 x 2.25 Grade 5
16	05900002	1	Bolt, Hex .50-13 x 7.00
17	06441900	3	Washer, Flat Steel .531 x 1.06 x .095
18	05518400	2	Bushing, Nylon, Flange .762 x 1.0 x .580 x 1.48
19	08815100	1	Bushing, Steel .560 x .745 x 2.04 Steel
20	00269451	1	Weldment, Idler
21	06537200	2	Nut, Locking Jam Center .375-16
22	05516400	4	Bushing, Sleeve .500 x .750 x 1.560
23	09215200	1	Bushing, .516 x 1.0 x 1.05
24	07324100	1	Idler Flanged 3.50
25	00473500	1	Weldment, Idler
26	05500039	2	Bushing, Flanged 0.75 x 0.875 x .625 x 1.125
27	07224300	1	V-Belt, HA Raw Edge Laminated
28	06223800	1	Bolt, Round Head Square Neck .38-16 x 1.75 Grade 5
29	05962200	1	Bolt, Hex .50-13 x 5.00 Grade 5
30	08300507	1	Spring, Extension
31	06307300	1	Washer, Locking .50 x .125
32	06537300	1	Nut, Hex .50-13
33	06519700	2	Nut, Locking Center Jam .500-13
34	08300512	1	Spring, Extension
35	06534900	1	Nut, Locking Jam Center .375-16
36	07300028	1	Idler, Flange .38ID x 3.50
37	06436200	1	Washer, Flat Steel .406 x .812 x .065

SNOW CHUTE AND CHUTE CRANK ASSEMBLY



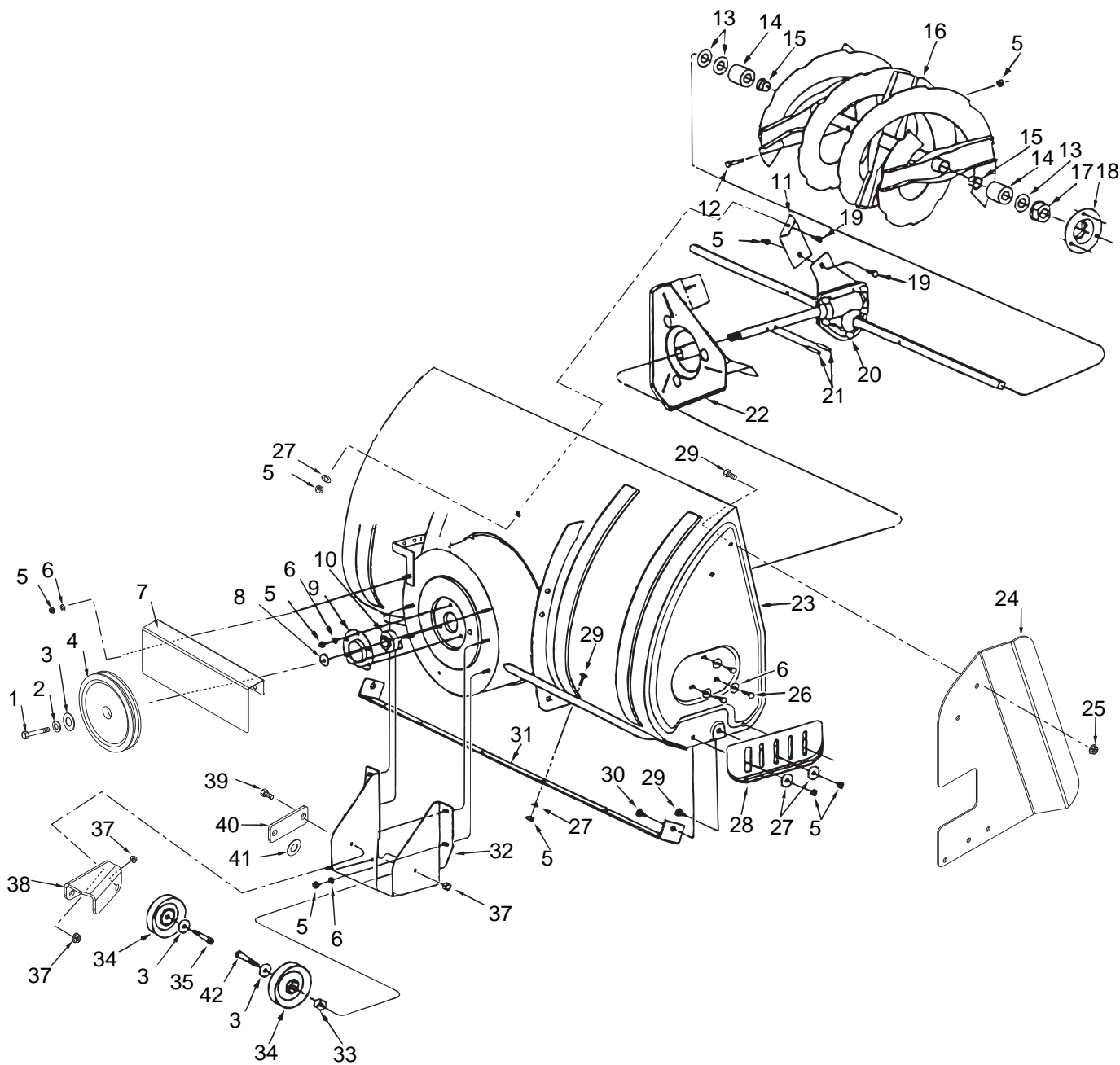
OEe005

SNOW CHUTE AND CHUTE CRANK ASSEMBLY (CONTINUED)

Item	Ariens Part No.	Agri-Fab Part No.	Qty.	Description
1	01019800	NA	1	Cap, .38 Rod
2	07508300	NA	1	Knob
3	NA	603-0302	1	Assembly, Chute Tilt Bracket
4	06215700	NA	4	Bolt, Round Head Square Neck .31-18 x .75 Grade 5
5	NA	720-0232	1	Knob
6	NA	784-5604	1	Handle, Chute Tilt
7	NA	731-1313C	2	Guide, Cable
8	06437200	43081	1	Washer, 5/16
9	06529800	43064	4	Nut, Hex Lock 5-16-18
10	06308600	NA	1	Washer, Locking .31 x .078 Regular
11	06433600	NA	5	Washer, Flat Nylon .375 x .75 x .060
12	06543100	NA	2	Nut, Locking Top Flange .31-18
13	03247700	NA	1	Crank, Chute
14	02470400	784-5149	1	U-Joint
15	06714500	43850	2	Pin, Spring Clip
16	05500006	741-0475	2	Plastic Bushing, 3/8
17	06436200	43070	1	Flat Washer, 3/8
18	06216100	43079	2	Carriage Bolt, 5/16-18 x 1
19	00266700	684-0061	1	Chute Crank Assembly
20	00266900	24299	1	Chute Crank Bracket, Front
21	00266800	24300	1	Chute Crank Bracket, Rear
22	NA	731-1320	1	Chute, Upper
23	NA	746-0929	1	Cable, Chute Control with Clip
24	NA	746-0928	1	Cable, Chute Control
25	NA	784-5594	1	Bracket, Cable
26	NA	731-131C	1	Guide, Cable
27	05947700	43661	6	Hex Bolt, 1/4-20 x 1
28	06437300	43088	12	Washer, 1/4
29	NA	731-0851A	3	Chute Keeper
30	06529700	47598	6	Hex Lock Nut, 1/4
31	NA	731-1300A	1	Chute, Lower
32	06118000	NA	1	Screw, Machine .25-20 x .75 Hex Washer Head
33	06212100	43681	1	Carriage Bolt, 5/16-18 x 1-1/2
34	06437200	43081	5	Washer, 5/16
35	06529700	43013	5	Hex Lock Nut 1/4-20
36	NA	731-1379A	1	Chute Adapter
37	NA	705-5226	1	Chute Reinforcement
38	06219900	44950	5	Carriage Bolt, 1/4-20 x 3/4
39	06543100	NA	2	Nut, Locking Top Flange .31-18

NOTE: To order parts from Agri-Fab, Inc.: call (217) 728-8388 or order parts on-line at www.SpeedEPart.com.

SNOW THROWER AND AUGER ASSEMBLY



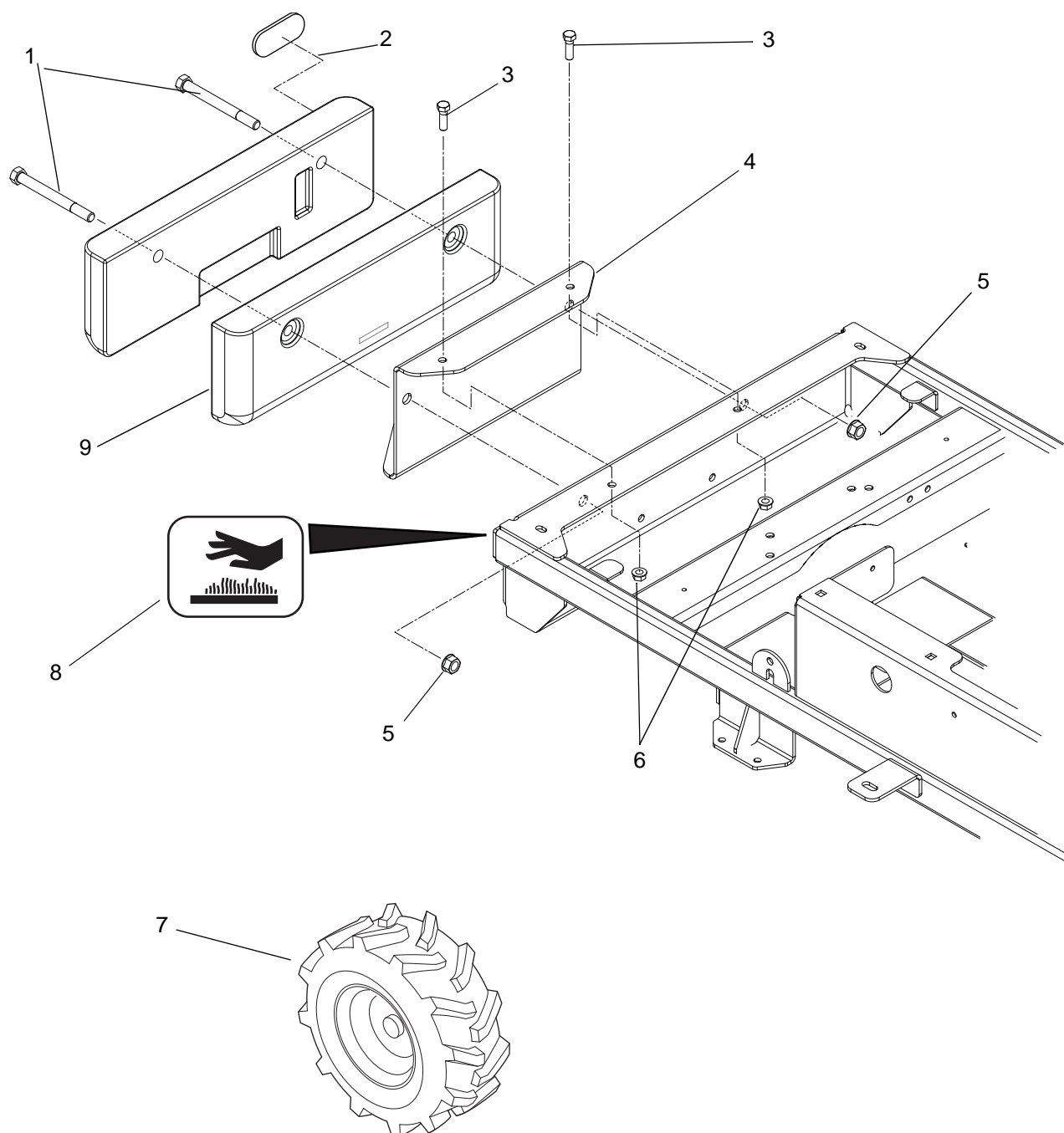
OEe005

SNOW THROWER AND AUGER ASSEMBLY (CONTINUED)

Item	Ariens Part No.	Agri-Fab Part No.	Qty.	Description
1	05960300	44377	1	Hex Bolt, 3/8-24 X 1
2	06308800	43003	1	Lock Washer, 3/8
3	06436200	736-0247	9	Washer
4	NA	47026	1	Pulley, V-Type
5	06529800	43064	35	Hex Lock Nut, 5/16-18
6	06308600	43086	35	Lock Washer 5/16
7	00265251	NA	1	Finger Guard
8	NA	750-0437	2	Bushing
9	NA	05931	1	Housing, Bearing
10	NA	741-0309	1	Bearing, Ball
11	NA	703-2734	1	Bracket, Housing Brace
12	NA	710-0890A	2	Bolt, Shear 5/16-18 x 1-1/2
13	NA	736-0188	6	Washer, .76 x 1.49 x .06
14	NA	711-0469	4	Spacer, .75 ID x 1.25 OD x .51
15	NA	741-0493A	4	Bearing, Split, 3/4
16	NA	705-5270	1	Spiral Assembly, R.H.
	NA	705-5269	1	Spiral Assembly, L. H.
17	NA	47615	2	Bearing Flange
18	NA	784-5618	2	Housing, Bearing
19	05947000	43182	2	Hex Bolt, 5/16"-18 x 3/4"
20	NA	618-0616A	1	Gear Assembly
21	NA	715-0114	2	Spiral Pin, 1/4 x 1-1/2"
22	NA	63768	1	Impeller Assembly
23	NA	63562	1	Housing Assembly
24	00266651	NA	1	Drift Cutter, Right Hand
	00266551	NA	1	Drift Cutter, Left Hand
25	06543100	NA	4	Nut, Locking Top Flange .31-18
26	07414400	46703	6	Bolt, Self-Tap 5/16 x 3/4"
27	06437200	43081	11	Washer, 5/16
28	NA	24279	2	Skid Shoe
29	06215700	43080	12	Carriage Bolt, 5/16-18 x 3/4
30	06216100	44326	4	Carriage Bolt, 5/16-18 x 1
31	NA	24773	1	Scraper Plate
32	NA	24281	1	Bracket, Idler
33	08553700	NA	1	Bushing
	043922	NA	1	(Gravelly Part Number)
34	07311400	47044	2	Pulley, V-Type
35	05957900	NA	1	Bolt, Hex .38-16 x 1.50 Grade 5
36	NA	711-0242	1	Spacer
37	06542000	NA	4	Nut, Locking Top Flange .38-16
38	00271951	NA	1	Bracket
39	05948700	NA	2	Bolt, Hex .38-16 x 1.00 Grade 5
40	00264551	NA	1	Plate, Shim
41	06444000	NA	1	Washer, Flat Steel .406 x 1.00 x .188
42	05963300	NA	1	Bolt, Hex .38-16 x 2.00 Grade 5

NOTE: To order parts from Agri-Fab, Inc.: call (217) 728-8388 or order parts on-line at www.SpeedEPart.com.

WHEELS AND COUNTERWEIGHTS



Item	Part No.	Qty.	Description
1	05962200	2	Bolt, Hex .50-13 x 5.00 Grade 5
2	00272000	2	Reflector (Agri-Fab Part Number) 47788
3	05958000	2	Bolt, Hex .38-16 x 1.25 Grade 5
4	03789051	1	Bracket, Weight
5	06543600	2	Nut, Top Locking Flange .50-13
6	06542000	2	Nut, Top Locking Flange .38-16
7	00259000	2	Assembly, Wheel and Tire, Snow Hog 18 x 6.5
8	07754100	2	Decal, Hot Surface
9	00172000	2	Weight, Cast Iron



Consumer Mowing Equipment Limited Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Ariens, Gravely and Countax brand lawn and garden consumer products purchased on or after 1/1/2012 will be free from defects in material and workmanship for the time period noted in the chart below. Equipment put to personal use around a single household or residence is considered "Consumer Use"; equipment put to any business use (agricultural, commercial, or industrial) or used at multiple locations is considered "Commercial Use." If any product is rented or leased, then the duration of these warranties shall be 90 days after the date of purchase.

An authorized Ariens dealer (Ariens brand products), Gravely dealer (Gravely brand products), or Countax dealer (Countax brand products) will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge (labor and parts) to the original purchaser except as noted below.

Warranty Code	Product Group	Warranty Period Consumer Use	Warranty Period Commercial Use
HA	Zoom & ZT Zero-Turn Riders; AMP™ Rider	3 Years	90 Days
HB	Max Zoom & ZT HD Zero-Turn Riders	3 Years	1 Year
HC	Tractors, "961" Series Walk-Behind Mowers	2 Years	90 Days
HD	Classic LM Series Mowers; Wide Area Walk Mowers	3 Years	90 Days
N/A	Service (replacement) Parts	90 Days (no labor)	90 Days (no labor)

Special Extensions

The chart below details special extensions to this warranty:

Warranty Code	Warranty Exception	Warranty Period	Use	Detail
HA, HB	Mower Deck Shell on Zero-Turn Riders	5 Years	Consumer	3 years parts and labor Additional 2 years parts only
HA, HB	Main Frame on Zero-Turn Riders	5 Years	Consumer	3 years parts and labor Additional 2 years parts only
HA	Batteries for AMP™ Rider	2 Years	Consumer	100% first year; prorated second year

Exceptions and Limitations

The chart below details special exceptions to this warranty:

Warranty Code	Warranty Exception	Warranty Period	Use	Detail
All	Batteries	1 Year	Consumer	Prorated
All	Belts, Muffler, Tires	None	Commercial	These components are not covered when used commercially.
All	Cloth, Plastic, and Rubber Components (Including Belts and Cables)	Maximum 2 Years	All	Warranty is limited to 2 years for consumer use. Except as noted above, these components are covered for defect, not for wear.
All	Engines	See Engine Manufacturer's Warranty	All	Engines are covered by engine manufacturer's warranty. Refer to engine manufacturer's warranty statement.

Customer Responsibilities

Register the product immediately at the time of sale. If the dealer does not register the product, the customer must complete the product registration card in the literature package and return it to the Ariens Company, or register the unit online at www.ariens.com, www.gravely.com, www.countax.com.

To obtain warranty service, the **original purchaser** must:

- Perform the maintenance and adjustments explained in the owner's manual.
- Promptly notify Ariens or an authorized Ariens, Gravely or Countax service representative of the need for warranty service.
- Transport the product to and from the place of warranty service at owner's expense.
- Have the warranty service performed by an authorized Ariens, Gravely or Countax service representative.

To Find an Authorized Service Representative:

In the U.S. and Canada:		
Use the dealer locator on our websites: www.ariens.com • www.gravely.com		
Or contact us by mail or by phone:		
In the U.S., Canada, Mexico, Caribbean, Central and South America:	In Europe, Asia, Africa or the Middle East:	In Australia or New Zealand:
Ariens Company 655 W. Ryan Street Brillion, WI 54110 Phone: (920) 756 - 4688 www.ariens.com	Countax Ltd, Countax House Great Haseley, Oxfordshire, OX44 7PF Phone: 0800 597 7777 www.countax.com	109-111 Abbot House Hallam, Victoria 3803 Australia Phone: (03) 9796 4244 1800 335 489 www.bynorm.com.au

Exclusions - Items Not Covered by This Warranty

- Parts that are not genuine Ariens, Gravely or Countax service parts are not covered by this warranty and may void the warranty.
- Damages resulting from the installation or use of any part, accessory, or attachment which is not approved by the Ariens Company for use with product(s) identified herein are not covered by this warranty.
- The following maintenance, service and replacement items are not covered by this warranty unless they are noted in the Limitations section above: lubricants, spark plugs, oil, oil filters, air filters, fuel filters, brake linings, brake arms, brake shoes, skid shoes, scraper blades, shear bolts, mower blades, mower vanes, brushes, headlights, light bulbs, knives, cutters.
- Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires repair is not covered by this warranty.
- **Use of gasoline blends exceeding 10% ethanol voids any and all warranties.**
- Products are designed to the specifications in the area that the product was originally distributed. Different areas may have significantly different legal and design requirements. This warranty is limited to the requirements in the area in which the unit was originally distributed. Ariens Company does not warrant this product to the requirements of any other area. Warranty service is limited to service within the area originally distributed.
- In countries other than the United States and Canada, contact the Ariens Company dealer for warranty policies that govern within your country. Rights may vary from country to country and within any one country.

Disclaimer

Ariens Company may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating the Ariens Company to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective.

LIMITATION OF REMEDY AND DAMAGES

Ariens Company's liability under this warranty, and under any implied warranty that may exist, is limited to repair of any defect in workmanship, and repair or replacement of any defective part. Ariens Company shall not be liable for incidental, special, or consequential damages (including lost profits). Some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

AUSTRALIAN CONSUMER LAW

The following applies solely to warranties subject to Subsection 102(1) of the Australian Consumer Law: Our goods come with guarantees that cannot be excluded by the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

DISCLAIMER OF FURTHER WARRANTY

Ariens Company makes no warranty, express or implied, other than what is expressly made in this warranty. If the law of your state provides that an implied warranty of merchantability, or an implied warranty of fitness for particular purpose, or any other implied warranty, applies to Ariens Company, then any such implied warranty is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from region to region.



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An *Ariens* Company Brand